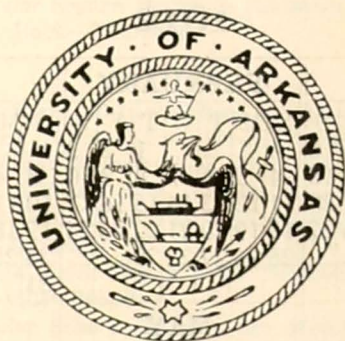


CATALOGUE  
OF THE  
UNIVERSITY OF ARKANSAS  
FOR 1910-11  

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ANNOUNCEMENT FOR 1911-1912



FOUNDED MARCH 27, 1871

FAYETTEVILLE, ARKANSAS

# 1911

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1			1	2	3	4	5						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30
30	31																			
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						

# 1912

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3						1	2
7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9
14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16
21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23
28	29	30	31				25	26	27	28	29			24	25	26	27	28	29	30
														31						
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6				1	2	3	4							1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						



## CALENDAR, 1911-1912

### 1911.

- MAY 25. Final Examinations Begin in the Departments at Fayetteville—Thursday.
- MAY 30. Memorial Day—a Holiday—Tuesday.
- JUNE 3. Memorial Day—a Holiday—Saturday.
- JUNE 4. Baccalaureate Sermon, U. of A. Chapel—Sunday.
- JUNE 7. *Commencement*—Wednesday.
- JUNE 12. Summer Session Begins at Fayetteville—Monday.
- JULY 22. Summer Session Ends—Saturday.
- SEPT. 20. *Academic Year* Begins in all Departments at Fayetteville—Wednesday.
- SEPT. 20-23. Examinations for admission to B. A., Engineering, Scientific, and Normal Courses—Wednesday to Saturday.
- SEPT. 20. Fall Term Begins in the Law School, Little Rock—Wednesday.
- SEPT. 28. Regular Session Begins in the Medical School, Little Rock—Thursday.

### 1912.

- JAN. 13. Fall Term of Law School Ends—Saturday.
- JAN. 15. Spring Term of Law School Begins—Monday.
- JAN. 27. Mid-Year Examinations Begin in the Departments at Fayetteville—Saturday.
- FEB. 3. First Term Ends in all Departments at Fayetteville—Saturday.
- FEB. 5. Second Term Begins in all Departments at Fayetteville—Monday.
- APR. 27. Regular Session Ends in the Medical School, Little Rock.
- MAY 30. Memorial Day—a Holiday—Thursday.
- MAY 31. Final Examinations Begin in the Departments at Fayetteville—Friday.
- JUNE 1. Spring Term of Law School Ends—Saturday.
- JUNE 3. Memorial Day—a Holiday—Monday.
- JUNE 9. Baccalaureate Sermon, U. of A. Chapel—Sunday.
- JUNE 12. *Commencement*—Wednesday.

## DEPARTMENTS OF THE UNIVERSITY

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The University comprehends the following departments:

*At Fayetteville:*

THE COLLEGE OF LIBERAL ARTS, SCIENCES, AND ENGINEERING.

THE COLLEGE OF AGRICULTURE.

THE AGRICULTURAL EXPERIMENT STATION.

THE CONSERVATORY OF MUSIC AND ART.

*At Little Rock:*

THE MEDICAL SCHOOL.

THE LAW SCHOOL.

*At Pine Bluff:*

THE BRANCH NORMAL COLLEGE.

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\*Term expires in 1911.

\*\*Term expires in 1913.

\*\*\*Term expires in 1915.

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J. F. RUTHERFORD.*On Printing.*

M. L. DAVIS, G. JONES, W. S. GOODWIN.

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G. B. COOK, F. P. HALL, M. L. DAVIS.

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M. L. DAVIS, F. P. HALL, PRESIDENT TILLMAN.

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University, Director of the Station.



## THE FACULTY

---

JOHN NEWTON TILLMAN, LL. D. . . . . 421 N. College Ave.  
*President of the University.*

**Representing the College of Liberal Arts, Sciences, and  
Engineering.**

JOHN CLINTON FUTRALL, M. A. . . . . 226 N. College Ave.  
*Professor of Ancient Languages.*

GEORGE WESLEY DROKE, A. M. . . . . 103 Hill St.  
*Professor of Mathematics and Astronomy.*

JULIUS JAMES KNOCH, M. S., C. E. . . . . 402 N. College Ave.  
*Professor of Civil Engineering.*

WILLIAM NATHAN GLADSON, M. S., E. E., Ph. D.,  
820 W. Maple St.  
*Professor of Electrical Engineering.*

ALBERT HOMER PURDUE, A. B. . . . . 538 Leverett St.  
*Professor of Geology.*

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*Professor of Biology.*

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*Professor of Philosophy and Pedagogy.*

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*Professor of History and Political Science.*

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*Professor of Mechanical Engineering.*

CHARLES HILLMAN BROUGH, A. M., LL. B., Ph. D.,  
241 N. College Ave.  
*Professor of Economics and Sociology.*

CHARLES GEIGER CARROLL, A. M., Ph. D.,  
732 W. Maple St.  
*Professor of Chemistry.*

\*EDGAR FINLEY SHANNON, A. B.  
*Professor of English.*

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\*Absent on leave during 1909-11.

- ANTONIO MARINONI, A. M. .... Ida Ave.  
*Professor of Romance Languages.*
- MAX CARL GUENTHER LENTZ. .... 204 W. Dickson St.  
*Professor of Germanic Languages.*
- GILES EMMET RIPLEY, B. S., M. S. .... 108 S. Duncan St.  
*Professor of Physics.*
- ALVIN ARTHUR STEEL, B. S. in C. E., E. M.,  
613 Highland Ave.  
*Professor of Mining.*
- OLIN DANTZLER WANNAMAKER, A. M., 15 S. Duncan St.  
*Acting Professor of English.*
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States Army) ..... 228 W. Center St.  
*Commandant and Professor of Military Science and Tactics.*
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*Associate Professor of Mathematics.*
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*Associate Professor of Civil Engineering.*
- LEE SEDWICK OLNEY, B. E. E. .... R. F. D. No. 2  
*Associate Professor of Electrical Engineering.*
- DAVID YANCEY THOMAS, Ph. D. .... 110 Fairview Ave.  
*Associate Professor of History and Political Science.*
- GUSTAVUS GARLAND GREEVER, A. M., 753 W. Dickson St.  
*Associate Professor of English.*

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- CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,  
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*Professor of Agronomy.*
- JOSEPH LEE HEWITT, B. S. .... 432 Wash. Ave.  
*Professor of Plant Pathology.*
- GEORGE ALBERT COLE, B. S., A. M.,  
*Superintendent of Extension.*
- PAUL N. FLINT, B. S., M. S. .... 223 E. Lafayette St.  
*Professor of Animal Husbandry.*
- J. F. STANFORD, D. V. S. .... West Maple St.  
*Professor of Veterinary Science.*
- CARL H. TOURGEE, B. S. A. .... Watson St.  
*Professor of Dairying.*
- R. C. THOMPSON, B. S. .... 731 W. Dickson St.  
*Professor of Agricultural Chemistry.*

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- B. W. TORREYSON ..... Little Rock  
*Professor of Secondary Education.*

#### Representing the Conservatory of Music and Art.

- HENRY DOUGHTY TOVEY ..... 616 Ida Ave.  
*Director and Instructor in Piano, Organ, Theory and  
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#### Representing the Department of Physical Culture and Athletics.

- HUGO BEZDEK, S. B. .... Ozark Ave.  
*Professor of Physical Culture and Director of Athletics.*

#### Representing the Preparatory School.

- WILLIAM ALLEN RAMSEY, A. M., 324 N. College Ave.  
*Principal of the Preparatory School and Instructor in  
 Mathematics.*

**Representing the Medical School (Little Rock).**

EDWIN BENTLEY, M. D., U. S. A. (Retired),  
*Professor of the Principals and Practice of Surgery and  
President of the Medical Faculty.*

**Representing the Law School (Little Rock).**

JOHN HUGH CARMICHAEL, LL. B.,  
*Dean of the Law School and Professor of Contracts,  
Domestic Relations, Judgments, Constitutional Law,  
Conflict of Laws.*



## OTHER OFFICERS OF INSTRUCTION

---

The College of Liberal Arts, Sciences, and Engineering.

HUGH ELLIS MORROW, B. S. A.....305 Lafayette Ave.  
*Associate Professor of Chemistry.*

NEIL CAROTHERS, B. A.....717 W. Dickson St.  
*Associate Professor of Economics and Sociology.*

BRAINERD MITCHELL, JR.....S. Duncan St.  
*Associate Professor of Mechanical Engineering.*

ARTHUR M. HARDING, B. A.....214 E. Lafayette Ave.  
*Associate Professor of Mathematics.*

JOHN J. JAMES, B. A.....N. of University  
*Adjunct Professor of Ancient Languages.*

WILLIAM BOYD STELZNER, B. E. E.....East St.  
*Adjunct Professor of Electrical Engineering.*

ESTELLE McMILLAN BLAKE.....616 Ida Ave.  
*Instructor in English.*

JOBELLE HOLCOMBE, B. A.....N. Coll. Ave.  
*Instructor in English.*

HERMAN W. DEAN.....314 W. Mountain St.  
*Instructor in Mechanical Engineering.*

ROSE BLAND, B. A.....703 W. Dickson St.  
*Training Teacher in University Normal School.*

PEARL HUNTLEY ETHERIDGE, M. A...753 W. Dickson  
*Instructor in English.*

JOSEPHINE M. DROKE, B. A.....103 Hill St.  
*Instructor in Mathematics.*

GUYON CARNES,  
*Assistant in Normal Training.*

PHIL C. HUNTLY, B. C. E.....Sigma Chi House  
*Instructor in Civil Engineering.*

WILLIAM EDGAR DUCKWORTH,  
*Instructor in Mechanical Engineering.*

## The College of Agriculture.

- PAUL HAYHURST, A. B.....S. Duncan St.  
*Adjunct Professor of Entomology.*
- ROBERT M. GOW, D. V. M.....415 Wash. Ave.  
*Adjunct Professor of Veterinary Science.*
- JAMES YOWELL, B. S. A.,  
*Assistant Animal Husbandman.*
- CHARLES V. RUZEK, B. S. A.....328 College Ave.  
*Adjunct Professor of Agronomy.*
- J. MELVIN WILSON, B. S.....216 W. Dickson St.  
*Assistant Superintendent of Extension.*
- W. C. LASSETTER, B. S. A.....225 College Ave.  
*Assistant in Agronomy.*
- H. S. MOBLEY,  
*Special Agent in Charge of Boys' Corn Clubs.*
- J. L. STAHL, B. S. A.....731 W. Dickson St.  
*Assistant in Plant Pathology.*
- H. E. STEVENS, B. S. A., M. S.....731 W. Dickson St.  
*Assistant in Plant Pathology.*
- GEO. G. BECKER, B. S. A.....328 College Ave.  
*Assistant in Entomology.*
- J. M. BORDERS, B. S. A.....712 W. Maple St.  
*Assistant in Extension.*
- CARL CHRISTOPHER, B. S. A.....125 N. East St.  
*Assistant in Animal Husbandry.*

## The Conservatory of Music and Art.

- WILLIE VANDEVENTER-CROCKETT,  
318 W. Lafayette Ave.  
*Elocution and Physical Culture.*
- MARY CUMMINGS BATEMAN.....324 N. College Ave.  
*Voice.*
- ELIZABETH GALBRAITH.....Arkansas Bldg.  
*Art.*

EVELYN METZGER,

*Assistant in Art.*

MARTHA E. WHITE.....740 W., Maple St.

*Assistant in Elocution and Physical Culture.*

DEWITT DEPUE,

*Violin.*

SUE BELLE WOOD.....Maple St.

*Piano.*

THEODORE MACMILLAN BLAKE.....616 Maple St.

*Piano.*

BLANCHE HOYT,

*Accompanist for the Department and the Glee Club.*

MABLE BELL, GENEVIEVE MOCK, HELEN ADAMS

AND BLANCHE HOYT,

*Assistants.*

**\*The Preparatory School.**

NAOMI JOSEPHINE WILLIAMS, A. M., 607 W. Dickson St.

*Latin.*

MARY ANNE DAVIS.....327 Washington Ave.

*English and History.*

ELIZABETH WALKER JORDAN, B. S., Ella Carnall Hall

*English.*

ANDREW JACKSON THOMAS.....603 Leverett St.

*Mathematics.*

MARY GARNETT HARGIS.....324 N. College Ave.

*Mathematics.*

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\*The Preparatory School will be discontinued at the close of the year 1910-11.

## OTHER OFFICERS.

MRS. MARY L. AUSTIN,  
*Librarian.*

F. J. GEORGE,  
*Assistant Librarian.*

ALBERT HOMER PURDUE, B. A.,  
*Curator of Museum.*

BIRTON NEILL WILSON, B. Sc., M. E.,  
*Superintendent of Mechanic Arts.*

BRAINERD MITCHELL, JR.,  
*Assistant Superintendent of Mechanic Arts.*

ELVA L. SLY,  
*Dean of Women.*

FRANK BARR,  
*Instructor of the Cadet Band.*

HENRY STUART BAGLEY,  
*Secretary to the President.*

B. W. DICKSON, A. B.,  
*General Secretary of the Y. M. C. A.*

ELVA L. SLY,  
*Secretary of the Y. W. C. A.*

EUNICE BURNS,  
*Superintendent of Boys' Dormitories.*

MRS. F. S. PARKE,  
*Superintendent of Girls' Dormitory.*

W. T. CRIPPIN,  
*Engineer.*

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THE AGRICULTURAL EXPERIMENT STATION.  
Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,  
*President of the University.*

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,  
*Director and Entomologist.*



ROBERT ROBSON DINWIDDIE, M. D., V. S.,  
*Pathologist and Bacteriologist.*

ERNEST WALKER, B. S. A.,  
*Horticulturist.*

MARTIN NELSON, B. S. A., M. S.,  
*Agronomist.*

JOSEPH LEE HEWITT, B. S.,  
*Plant Pathologist.*

PAUL N. FLINT, B. S., M. S.,  
*Animal Husbandman.*

J. F. STANFORD, V. S.,  
*Veterinarian.*

CARL H. TOURGEE, B. S. A.,  
*Dairyman.*

R. C. THOMPSON, B. S.,  
*Chemist.*

PAUL HAYHURST, A. B.,  
*Assistant Entomologist.*

R. M. GOW, D. V. M.,  
*Assistant Veterinarian.*

JAMES YOWELL, B. S. A.,  
*Assistant Animal Husbandman.*

CHARLES V. RUZEK, B. S. A.,  
*Assistant Agronomist.*

W. C. LASSETTER, B. S. A.,  
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J. L. STAHL, B. S. A.,  
*Assistant Plant Pathologist.*

H. E. STEVENS, B. S. A., M. S.,  
*Assistant Plant Pathologist.*

GEO. G. BECKER, B. S. A.,  
*Assistant Entomologist.*

CARL CHRISTOPHER, B. S. A.,  
*Assistant Animal Husbandman.*

L. L. WOOTTEN, A. B.,  
*Executive Clerk.*

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### THE MEDICAL SCHOOL.

#### Little Rock.

JOHN NEWTON TILLMAN, LL. D.,  
*President of University.*

EDWIN BENTLEY, M. D., U. S. A. (Retired),  
*Professor of Principles and Practice of Surgery.*

JAMES HORACE LENOW, M. D.,  
*Professor of Diseases of the Genito-Urinary Organs, and  
Dean.*

LOUIS RAOUL STARK, M. D.,  
*Professor of Gynecology.*

E. R. DIBRELL, M. D.,  
*Professor of Medicine.*

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*Professor of Ophthalmology and Otology.*

W. H. MILLER, M. D.,  
*Professor of Obstetrics.*

F. L. FRENCH, M. D.,  
*Professor of Anatomy.*

CARLE E. BENTLEY, M. D.,  
*Professor of Principles and Practice of Surgery and Clinical  
Surgery.*

JOHN R. DIBRELL, M. D.,  
*Professor of Clinical Microscopy and Bacteriology.*

ANDERSON WATKINS, M. D.,  
*Professor of Principles and Practice of Surgery.*

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*Professor of Materia Medica and Therapeutics, and  
Secretary.*

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*Professor of Physiology.*

A. R. STOVER, M. D.,  
*Professor of Chemistry.*

M. M. OGDEN, M. D.,  
*Professor of Pathology and Histology.*

O. K. JUDD, M. D.,  
*Professor of Anatomy.*

A. E. HARRIS, M. D.,  
*Professor of Clinical Medicine and Physical Diagnosis.*

OSCAR GRAY, M. D.,  
*Professor of Clinical Gynecology.*

J. L. DIBRELL, M. D.,  
*Demonstrator of Anatomy.*

E. P. BLEDSOE, M. D.,  
*Professor of Nervous Diseases.*

**Lecturers, Instructors, and Demonstrators.**

MORGAN SMITH, M. D.,  
*Instructor in Pediatrics.*

A. L. CARMICHAEL, M. D.,  
*Instructor in Clinical Medicine.*

J. G. WATKINS, M. D.,  
*Assistant in Ophthalmology and Otology.*

I. C. CUNNINGHAM, M. D.,  
*Assistant in Obstetrics.*

M. D. McCLAIN, M. D.,  
*Assistant in Genito-Urinary Diseases.*

MILTON VAUGHAN, M. D.,

*Assistant in Materia Medica and Therapeutics.*

WM. GOODWIN, M. D.,

*Assistant in Clinical Microscopy and Bacteriology.*

C. V. SCOTT, M. D.,

*Assistant in Clinical Surgery.*

H. H. KIRBY, M. D.,

*Instructor in Dermatology and Assistant Demonstrator of Anatomy.*

A. M. ZELL, M. D.,

*Assistant in Pathology.*

J. A. TELLIER, A. B., LL. B.,

*Lecturer on Medical Jurisprudence.*

(To be supplied.)

*Instructor in Chemical Laboratory.*

R. L. MAXWELL, M. D.,

*Prosector of Anatomy.*

(To be supplied.)

*Assistant Demonstrator of Anatomy.*



## THE LAW SCHOOL.

## Little Rock.

- JOHN NEWTON TILLMAN, LL. D.,  
*President of University.*
- J. H. CARMICHAEL, LL. D., DEAN,  
*Contracts, Constitutional Law, Conflict of Laws, Judgments.*
- JOHN FLETCHER, LL. M.,  
*Real Property.*
- GEORGE W. MURPHY, LL. B.,  
*Law of Evidence.*
- TOM M. MEHAFFY, LL. B.,  
*Law of Torts.*
- JACOB TRIEBER, LL. B.,  
*Federal Procedure.*
- ASHLEY COCKRILL, LL. B.,  
*Law of Insurance*
- JESSE C. HART, LL. B.,  
*Equity Jurisprudence.*
- WILLIAM M. LEWIS, LL. B.,  
*Criminal Law and Procedure.*
- T. N. ROBERTSON, LL. B.,  
*Agency, Corporations, Negotiable Instruments, Pleading  
and Practice.*
- T. E. HELM, LL. B.,  
*Fraudulent Conveyances.*
- R. E. WILEY, LL. B.,  
*Law of Bankruptcy.*
- W. B. BROOKS, LL. B.,  
*Domestic Relations, Real Property—Junior.*
- R. C. POWERS, LL. B.,  
*Law of Bailments and Torts.*
- J. K. RIFFEL, LL. B.,  
*Law of Partnerships.*
- GEORGE VAUGHAN, LL. B.,  
*Abstracting and Searching Titles.*

## THE BRANCH NORMAL COLLEGE.

## Pine Bluff.

ISAAC FISHER, PRINCIPAL,

*Civil Government and Pedagogy.*

FREDERICK THOMAS VINEGAR,

*Mathematics and Agriculture.*

CHRISTINE RAMBO,

*Music and Language.*

MAMIE BRAWLEY JUNE,

*Dressmaking.*

BIRTON NEILL WILSON, B. Sc., M. E.,

*Superintendent of Mechanic Arts.*

WILLIAM STEPHENS HARRIS,

*Assistant Superintendent of Mechanic Arts.*

JAMES LINCOLN ROSS,

*Machine Shop and Forge.*

EDWINA M. WRIGHT,

*Drawing, Millinery and Geography.*

NANNETTA C. W. VANDERHOOP,

*Composition, Rhetoric and Reading.*

J. M. BURR,

*History and Agriculture.*

A. R. REEVES,

*Mathematics and Agriculture.*

## COMMITTEES OF THE FACULTY.

NOTE—Professors Johnson, Purdue, and Reynolds are a committee appointed to advise with students who expect to become high school teachers. Such students should consult with the committee before classification. This will not prevent a student from taking his major in any subject. In each case the student's major professor will be considered a member of the committee.

The President of the University is *ex-officio* a member of all Standing Committees.

ON DISCIPLINE—Professors Gladson and Pickel.

ON DOUBTFUL CASES—Professors Knoch, Reynolds, and Carroll.

ON CLASSIFICATIONS AND PETITIONS—B. A. Students, Professors Purdue, Shannon, and Droke; B. M. E. Students, Professor

B. N. Wilson; B. C. E. Students, Professor Knoch; B. E. E. Students, Professor Gladson; B. Mi. E. Students, Professor Steel; B. Ch. E. and B. S. C. Students, Professor Carroll; B. S. A. Students, Professor Adams; Conservatory Students, Director Tovey.

ON ACCREDITED SCHOOLS—Professors Reynolds, Dunn, Carroll, Greever, and Hewitt.

ON THE LIBRARY—Professors Wannamaker, Reynolds, Purdue, and Mrs. Austin.

ON THE CATALOGUE—Professors Futrall, Knoch, Marinoni, and Nelson.

ON THE SCHEDULE—Professors Futrall, Purdue, Gladson, and Nelson.

ON EMPLOYMENT—Professors Johnson, Knoch, and Shannon.

ON ENTERTAINMENTS—Professors Wilson, Brough, and Tovey.

ON COMMENCEMENT—Professors Johnson, Droke, and Gladson.

ON ADVISERS—Professors Droke, Brough, Wannamaker, and Ramsey.

ON PUBLIC APPEARANCE—Professors Futrall and Bezdek.

ON SUMMER SESSION—Professors Futrall, Marinoni, Johnson, Carroll, Reynolds, Purdue, Wannamaker, and Gladson.

## GENERAL STATEMENT

### ORIGIN.

The University of Arkansas owes its origin to an act of congress, approved July 2, 1862, providing that public lands should be granted to the several states, to the amount of "30,000 acres for each senator and representative in congress," from the sale of which there should be established a perpetual fund, "the interest of which shall be inviolably appropriated by each state, which may take and claim the benefit of this act, to the endowment, support, and maintenance of at least one college, where the leading object shall be, without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislature of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." The act forbids the use of any portion of the aforesaid fund, or of the interest thereon, for the purchase, erection, or maintenance of any building or buildings. The states accepting the provisions of the act are required to provide for the construction and maintenance of the necessary buildings, and for the expenses of administration in carrying out the purposes of the act.

The general assembly of the state of Arkansas accepted the national law by passing an act, approved March 27, 1871, which provided for the location, organization and maintenance of the University of Arkansas, and which allowed the several counties of the state to compete until a certain time for the location of the University by making public or private donations of bonds, moneys, or lands. Several individuals and communities made bids: Washington, the only county that competed, voted \$100,000. Fayetteville, Washington County, voted \$30,000 in addition, and was selected as the seat of the University. The institution was opened January 22, 1872.

Under an act of congress, approved March 2, 1887, the University receives \$15,000 annually for the maintenance of the experiment station, "to aid in acquiring and diffusing among



the people useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." In 1906, the congress passed an act increasing this appropriation by the sum of \$5,000 the first year, and providing for an additional increase of \$2,000 per annum, until such increased appropriation reaches \$15,000 annually.

Under an act of congress, approved August 30, 1890, the University receives \$25,000 annually, "to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their application to the industries of life."

On March 4, 1907, the congress passed an act increasing this appropriation at the rate of \$5,000 per annum, until the total amount appropriated annually reaches \$50,000.

As required by law, three-elevenths of this sum goes to the Branch Normal College at Pine Bluff.

#### [PURPOSE.

The University is at the head of the public educational system of the state of Arkansas. It seeks to foster the higher educational interests of the state, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its faculty and board of trustees, from year to year, to bring it into still closer articulation with the public schools of the state, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature and science, and technical education in the industrial arts and professional studies.

Through the aid received from the United States and from the state of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of law, medicine, music, and art, and to open wide her doors to all seekers of learning.

#### LOCATION.

Five of the eight divisions of the University, viz.: the College of Liberal Arts, Sciences, and Engineering, the Preparatory School, the Conservatory of Music and Arts, the College of

Agriculture, and the Agricultural Experiment Station, are located at Fayetteville, Washington County, Arkansas. Situated in the heart of the Ozark Mountains, it is more than 1,500 feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south of the Texas branch of the St. Louis & San Francisco Railroad, which has four trains daily each way, and various connections with other roads, both north and south. From the west students may reach Fayetteville by the Muscogee Division of the Frisco.

#### SUMMER SESSION.

The second Summer Session of the University will open on June 12, 1911, and close July 22.

The curriculum will consist of courses of grammar school, high school, and college grade, together with professional courses. The ideal set up for the session is highly competent instruction in the several divisions of the curriculum, and earnest, effective application on the part of the students. For the grammar school grade of work the instructors will be, in every case possible, teachers who have proven themselves in this kind of school work. There will be a practice school for demonstration of methods in grammar school work. Professor Torreyson, of the Department of Secondary Education, well known over the state, will give two courses for the special benefit of teachers in the secondary schools.

The high school and collegiate courses will be given mostly by members of the faculty of the University. The staff will be a thoroughly competent force comprising some of the heads of departments, some of the associate professors, and other members of the regular staff of the University.

Full information can be obtained by consulting No. 4, Volume 4, of the University Bulletin, which will be mailed on application to the President.

# EQUIPMENT OF THE UNIVERSITY AT FAYETTEVILLE

## UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building, two hundred and fourteen feet in length, and two wings, each one hundred and twenty-four feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, chapel, departmental libraries, general library, study halls, armory, magazine, band room, laboratories for biology, geology, and mining engineering, music and art rooms, president's and commandant's offices, natural history museum, literary society halls, toilet rooms, etc., in all, seventy rooms, together with broad corridors and stairways. The building is heated by steam, lighted by electricity, and supplied with water from the city waterworks.

## ENGINEERING HALL.

Engineering Hall is located on the main driveway, just south of University Hall. It accommodates the departments of electrical, civil, and mechanical engineering, with offices, lecture rooms, and laboratories. It is built of native sandstone and pressed brick, with limestone trimmings.

The building is one hundred and fifty by fifty-eight feet, four inches, three stories high, and contains thirty-two rooms, aggregating about 26,000 square feet of floor space. A corridor divides the building from east to west and is intersected at the middle by another hallway from the front of the building, thus giving easy access to any room.

In addition to the laboratories, offices, lecture rooms, and draughting rooms of departments of engineering, there is an assembly room on the first floor for the accommodation of the engineering societies, and other gatherings too large to be accommodated in a lecture room.

The library and reading room contains engineering magazines, journals, and technical works on engineering.



## COLLEGE OF AGRICULTURE AND AGRICULTURAL EXPERIMENT STATION.

The College of Agriculture and the Agricultural Experiment Station are closely related and united in their work, the personnel of their working forces being largely the same. The equipment of the Experiment Station, including field experiments and the results of investigations, is at the disposal of the college for purposes of instruction and demonstration.

The buildings include two old experiment station buildings which are devoted largely to laboratories and offices. In them are found the offices, laboratories, and such equipment as is necessary for indoor work of the departments of Horticulture, Plant Pathology, Agricultural Chemistry, Veterinary Science, and Agricultural Extension.

In the new agricultural building is found the office of the Dean and Director, Entomologist, and Agronomist, also the class rooms and laboratories of Entomology and Agronomy.

The departments of Animal Husbandry and Dairying have a stone building forty-five by seventy-five feet, two stories, with cheese-curing room and complete refrigerator plant, with two cold storage rooms for butter in the basement. On the first floor is located the creamery room containing different types of pasteurizers, ripeners, and churns; the cheese-making room fully equipped for the manufacture of Cheddar cheese; and a farm dairy which has many styles of hand separators, butter workers, and churns. The second floor affords accommodation for a large lecture room, milk-testing laboratory and offices. The dairy manufactures four to five hundred pounds of butter each week throughout the year.

A greenhouse serves to keep up a stock of plants for campus and indoor decorations and offers a place for experiments and instruction in forcing and greenhouse methods.

There are also a cottage for the farm foreman, barns, and implement and tool houses for the various departments.

## CHEMISTRY BUILDING.

On the first floor are located laboratories for qualitative and quantitative analysis, organic and physical chemistry, a private office and laboratory, and a balance room.



On second floor is the general lecture room, accommodating over one hundred and fifty students, with raised seats, giving each student full view of the lecturer's demonstrating table. Occupying all of one end of the second floor is the general chemistry laboratory, thirty-eight by forty-two feet, with a large balance room, storage room, and other accessories.

### PHYSICS BUILDING.

The frame building formerly used as a physical laboratory was destroyed by fire in the fall of 1909. Temporary quarters have been provided for the department in Engineering Hall. The legislature has been asked for an appropriation for a building and suitable equipment.

### BUCHANAN HALL.

This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, and convenience of access to University Hall. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a side veranda in front there are three entrances to the building. There are also two rear entrances. Behind the hall a brick bath house has been erected, which contains bath and toilet rooms, supplied with cold and hot water.

### HILL HALL.

In honor of Lieutenant-General Daniel Harvy Hill, C. S. A., who served ably as president of the University of Arkansas from June 16, 1877, until June 6, 1884, the name "Hill Hall" has been given the building known until 1906 as the "New Dormitory."

This structure, for which a special appropriation was made by the general assembly of 1901, is located west of University Hall, and north of Buchanan Hall, and is convenient of access to both buildings. It is a substantial brick structure, three stories high, with a foundation of range stone work, and with trimmings of dressed limestone, and contains in all some twenty-five rooms. The first story contains a commodious dining hall, thirty-eight by eighty-six feet, which is sufficiently large to

accommodate all students who occupy rooms in University dormitories. On this floor are also kitchen, storeroom, furnace room, coal bin, etc. The second and third stories contain some twenty rooms for students, besides ample corridors, stairways, etc. By the aid of the superintendent and the liberality of students and citizens a handsome suite of parlors has been tastefully and elegantly furnished. The entire building is heated by steam, lighted by electricity, and supplied with water by the city water-works.

### GRAY HALL.

This is a dormitory for young men. It is named in honor of Colonel Oliver Crosby Gray, C. S. A. Born and educated in Maine, he became thoroughly and prominently identified with the interests of the State of Arkansas. For a number of years he was Professor of Mathematics and Commandant in the University of Arkansas.

It was the purpose in the arrangement and planning of Gray Hall to provide as many bed rooms as possible with every comfort and convenience patterned after the U. S. Army barracks, with a two-story veranda extending entirely across the front.

Each of the two floors has thirty-four bed rooms and four large linen closets. The bed rooms are of an average size of twelve by fourteen feet, for two students each, with a large wardrobe and book shelves in each room, which is amply lighted by two large outside windows.

The building is one hundred and seventy-six feet in length by ninety-two feet in total depth, and is divided into groups or wings of from four to six rooms each, each group being inclosed within a brick fire wall, and all rooms being about equally distant from the two large flights of stairs.

An excellent system of steam heat is installed and connected with the general heating plant of the University.

The general exterior is good, having wide overhanging eaves with graceful roof lines, gray stone trimmings, and a good frontage, which adds to the effectiveness.

### ELLA CARNALL HALL.

The dormitory for young women is named "Ella Carnall Hall" in honor of Ella Carnall, Ph. M., Associate Professor of English

and Modern Languages in the University of Arkansas, who died much beloved by both pupils and fellow-teachers, and who bequeathed to the University her library of useful works on modern philology.

Ella Carnall Hall is designed to be complete within itself, having its own toilet and bath rooms, dining room, kitchen and independent steam heating plant. The building faces south, with a frontage of one hundred and ninety feet, and an eastern and western exposure of one hundred and six feet.

The first floor contains a large parlor and a library, each thirty by thirty-four feet, and situated to the right and the left respectively of the main entrance, with a reception room and parlor adjoining. In the rear wings of this story are the dining room, recreation room (each thirty-five by forty feet), kitchen and pantry. The east and west wings contain each a group of five bed rooms with a toilet and bath room, with a ten-foot veranda extending across the front of these wings.

The second story has thirty-six bed rooms, four large linen closets, and four toilet rooms.

In the third story are eight full-sized bed rooms, two toilet rooms, and ten rooms for individual piano practice. The latter are isolated in the east and west wings in such a manner as not to interfere with study or any other work going on in the building.

The arrangement of this building is such that every bed room has two large outside windows, giving ample light and ventilation, one large wardrobe, and one alcove with book shelves. The rooms average twenty by fourteen feet or over, and accommodate two students each.

All halls are well lighted and ventilated. The toilet rooms are so grouped and arranged as to give perfect sanitation at all times, and the stairways, four in number, are at the most convenient points to feed the building equally. This building has a pleasing exterior, distinguished by its massive but well-proportioned lines, its spacious verandas, and generally home-like and inviting appearance.

### HOSPITAL.

This is a one and one-half story brick building, forty-five by sixty-two feet, with a stone basement. The latter contains a kitchen, dining room, pantries, and a storage cellar with ce-



ment floors. The first story has a wide recreation and service corridor the entire length, with a fireplace and vestibule entrance; a reception room and parlor with a fireplace; an open ward for men with four beds; a men's bath and toilet room; a public toilet room; adjoining the men's bath room, the fully equipped wound-dressing and operating room; a private ward for men and one for women; also a large open ward for women and women's bath room; and a contagious ward entirely isolated from the rest of the building, with its own toilet room and fireplace. The second story contains four large finished rooms for the use of nurses and servants, or other purposes, if it is desired, plenty of closets, a linen room, and a large store room. The building is supplied with hot and cold water and electric lights, and is modern in every particular. It looks more like a home than a hospital.

#### GENERAL LIBRARY AND DEPARTMENTAL LIBRARIES.

The general library, occupying the second floor of the north wing of University Hall, is for the use of the whole University. All students who have matriculated may take out books, one volume at a time. A list of printed rules governing the use of the library may be had upon application to the Librarian. Officers of the University have access to the shelves, and students engaged in advanced work, upon recommendation by their instructors, may have books reserved from those parts of the collection with which they are occupied. The reading room of the general library is a study hall for collegiate students only.

The leading high-class periodicals (including magazines, reviews, and various technical monthlies) are taken and bound as they accumulate. This fund of current literature is rendered useful and accessible by Poole's Index and Readers' Guide to Periodical Literature. Forty-six magazines, nine weekly, and seven daily papers are received by the general library.

The general library contains 14,165 books and 5,000 pamphlets, with a catalogue on cards, which is accessible to the public and consists of two parts, one arranged by authors, the other by title.

In addition there are departmental libraries, opened to advanced students engaged in research work, and in charge of the heads of the several departments. These special libraries contain the following number of volumes:



*Ancient Languages:* U. H. 20; 300 books. PROFESSOR FUTRALL.  
*English and Modern Languages:* U. H. 30; 975 bound books;  
 205 unbound books.

PROFESSORS SHANNON, MARINONI, AND LENTZ.

*Mathematics and Astronomy:* U. H. 34; 306 books; 45 pamphlets. PROFESSOR DROKE.

*Chemistry:* Chemical Laboratory; 128 books; 140 journals; 950 pamphlets. PROFESSOR CARROLL.

*Biology:* U. H. 32; 250 books. PROFESSOR PICKEL.

*Geology and Mining:* U. H. 39; 1,227 books; 1,929 pamphlets. PROFESSOR PURDUE.

*Civil Engineering:* Eng. Hall; 200 books. PROFESSOR KNOCH.

*Agriculture:* College of Agriculture; 2,000 books; 10,000 pamphlets; 35 journals. DEAN ADAMS.

*Expression:* U. H. 38; 75 books. MRS. CROCKETT.

*Mechanical Engineering:* 200 books. PROFESSOR WILSON.

Thus the various branches of the University library contain 19,806 books and 18,129 pamphlets.

## THE LABORATORIES.

### THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in chemistry, mineralogy, physics, botany, zoölogy, entomology, horticulture, and in civil, mechanical, electrical, chemical, and mining engineering.

### CHEMICAL LABORATORIES.

The work in chemistry is carried on in the newly erected Chemistry Building. On the first floor of the building are laboratories for quantitative and qualitative analysis, organic chemistry, physical chemistry, the balance room, and a library. On the second floor is a large lecture room and a general laboratory for first year students. In the basement are store rooms and the laboratory for assaying. The various laboratories are well provided with work-tables, sinks, hoods, water, and gas. The department is provided with apparatus sufficient for the present needs.

### BIOLOGICAL LABORATORY

The biological laboratory is located on the third floor of University Hall, and has accommodation for about forty students. The laboratory is furnished with work-tables, a sink, and the necessary gas fixtures for incubators, sterilizers, etc.; also an aquarium for keeping aquatic animals and plants on hand for observation and study. The equipment in apparatus consists of Bausch and Lomb compound microscopes, dissecting microscopes, microtomes, and such other apparatus and chemicals as are needed for the practical work in biology. There is a collection of insects, and also apparatus for collecting, drying, preserving and mounting insects. The laboratory has a number of skeletons of different animals, and models and charts for teaching plant and animal anatomy.

### LABORATORIES OF GEOLOGY AND MINING ENGINEERING.

The geological department is provided with aneroid barometers, compasses, hand-levels, pedometer, etc., for field work. There is also a well equipped laboratory for determinative mineralogy.

### MECHANICAL ENGINEERING LABORATORY.

The laboratory contains the following machinery: One thirty-five horsepower compound automatic steam engine, one Hornsby-Akroid oil engine, one Kerr steam turbine, one side valve steam engine, one ten horsepower Weber gasoline engine, one thirty-five horsepower Westinghouse compound steam engine, one  $4\frac{1}{2} \times 3\frac{1}{2} \times 4$  duplex steam pump, one fifty horsepower Wheeler condenser with air, water, and circulating pumps, an Olsen oil testing machine, a viscosimeter, a flash point tester, one Pulsometer steam pump, one Westinghouse air compressor, and one 60,000 pound Rheile testing machine, for testing materials in tension and compression, such as wood, steel, and cast iron. This machine is also equipped for testing large beams of steel, concrete, or timber.

The laboratory is well provided with apparatus for experimental work, including a Mahler bomb calorimeter for testing fuels, an Orsat apparatus for flue gas analysis, a Junker calorim-

eter, steam calorimeters, six engine indicators, two injectors, an assortment of thermometers, pressure gauges, measuring tanks, feed water heater, water meters, scales, etc.

The steam boilers used for heating the University buildings are arranged so as to be available for experimental work, and the shop engine, a Corliss, is also used for purposes of instruction.

By special arrangement with the Fayetteville Water Company, and the City Electric Light and Power Company, the students are allowed to run tests on these plants.

Among the facilities for instruction in engineering contained in the equipment of the mechanical department in addition to that given under the heading of shops, mechanical engineering, drawing room, and mechanical laboratory, may be mentioned a Deane steam pump with air chamber, water and steam cylinders and valve chambers sectioned, so that a student may see the working parts; a Cameron steam pump with a steam cylinder sectioned, showing the valve motion; a Knowles pump in full working order; a Blake steam pump in action; sections of injectors; a model of Stevenson's link motion; and a collection of samples of manufactured articles such as steam pipe coverings, leather beltings, lubricating oils, etc.

### ELECTRICAL LABORATORIES.

The dynamo laboratory affords excellent facilities for experimental work with practical machinery. It is located in the east end of the basement of the Engineering Hall.

The power is supplied by a 30-horsepower, vertical type, double cylinder gasoline engine, and a 20 K. W. induction motor. A 60-cell, 300 ampere-hour storage battery supplies current for experiments in which absolutely steady power is desired.

There are direct current dynamos and motors of the constant current and constant potential types. Single, two and three phase alternators supply current at various voltages and frequencies. There are transformers, converters, synchronous, and induction motors, with a liberal supply of measuring instruments for use with the various machines.

The senior laboratory is located on the first floor of Engineering Hall, and is supplied with direct current at 110, 220 and 500 volts. Alternate current, single phase, at 50, 110 or 220 volts and 60 cycles. Two phase, 60 cycle at 110 or 220. Three phase at 110 or 220 volts, with a frequency of 60 to 133 cycles per second.



A high tension testing transformer supplies current at any voltage up to 120,000 volts for testing of insulators, while standard cells, a Kelvin balance and a potentiometer furnish means for calibrating the laboratory measuring instruments. The equipment enables students to carry on experimental work of a very wide range and to obtain proficiency in operating and testing electrical machinery.

Students are also permitted to inspect the plant of the Fayetteville Electric Light and Power Company, take measurements and make tests on it. Its primary mains supply the electrical laboratory with alternate current at 60 cycles and 2,000 volts.

The photometric laboratory, which also serves as a photographic and X-ray dark room, is supplied with a standard photometer bar, Lummer-Brodhun screen and Amylacetate standard lamp. It is connected by a cable with the switchboards in the storage battery room and in the dynamo room.

#### CIVIL ENGINEERING LABORATORY AND EQUIPMENT.

The instrument laboratory for this department is located on the first floor of Engineering Hall, and is provided with all the necessary instruments for work in land, railroad, and city surveying and office work. The equipment of the field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers. Among the instruments there are a number of engineers' transits and Y levels, theodolites, transit and solar attachment, compasses, hand levels, standard and ordinary steel tapes, plane tables, sextant, aneroid, and mercurial barometers, etc. An equipment for practical astronomy has been added, consisting of a large altazimuth, reading to seconds by levels and micrometers; a sidereal clock with break-circuit attachment; and a chronograph reading to tenths of seconds.

The laboratory for testing materials of construction and for work in experimental hydraulics is located in the northwest corner of the basement of Engineering Hall. It is a well-lighted room having a floor space of 2,450 square feet.

The equipment for the purpose of testing the quality and strength of cements and mortars includes one 2,000-pound tension machine, one 1,000-pound automatic machine, brass molds for tension, compression, and transverse test pieces, storage



tanks and apparatus for testing fineness, specific gravity and activity, and for accelerated tests.

For steel testing the laboratory contains a 4,000-pound tension machine and a 5,000-pound transverse machine for tests on bars, and a Fremont impact testing machine. Special apparatus has been provided for testing paving brick and road material, among which may be mentioned a grinding machine for preparing test specimens and machines for abrasion tests.

The equipment for experiments in hydraulics consists of a Pelton water wheel, a hydraulic engine, water meters, weirs and other apparatus.

The laboratory is also well equipped for making blue and brown tints of any size up to 36x64 inches.

#### AGRICULTURAL CHEMISTRY LABORATORY.

The laboratory of agricultural chemistry is located in three rooms in the old experiment station building. It is equipped with water, gas, tables, hoods, and all apparatus necessary for analytical work relative to various agricultural problems.

#### HORTICULTURAL LABORATORY.

For some phases of study the principal laboratory for the student of horticulture is the field and garden.

For such work as must be carried on indoors there is available for study and practice a fairly complete equipment of spraying machinery, garden tools, implements and conveniences. There are rooms equipped for practical instruction in grafting, seed sowing, seed testing, and transplanting. The greenhouse offers facilities for some phases of class work, plant study and practice. There is an equipment of microscopes and accessories for the study of diseases, the minute structure of plants, and functions. The departmental library embraces several hundred volumes and a large number of pamphlets. These are available for reference by students in horticulture, and others, under the usual regulations.

#### LABORATORIES OF ANIMAL PATHOLOGY AND VETERINARY SCIENCE.

These occupy three rooms in the Experiment Station Building and are equipped with all modern apparatus used in ad-

vanced work in this line, including Zeiss and Reichert microscopes, thermostats, sliding, paraffine and freezing microtomes, and a fairly complete reference library of home and foreign publications on patho-biological research.

#### ENTOMOLOGICAL LABORATORY.

The entomological laboratory is located on the first floor of the Agricultural Building, occupying two rooms. It is well supplied with apparatus such as microscopes, microtomes, paraffine baths, and dissecting instruments. There are collecting nets, insect cabinets, work-tables, and a very complete set of entomological publications at the disposal of the student. The collection of insects is growing rapidly and serves as a valuable aid to the student of entomology.

#### LABORATORY OF PLANT PATHOLOGY.

The laboratory of Plant Pathology is located in the Experiment Station Building. It is equipped with highest power microscopes and such high standard apparatus as is necessary for studying the tissues of plants, the development of diseases therein; laboratory materials and specimens for study.

#### SOILS LABORATORY.

The Soils Laboratory is located on the first floor of the Agricultural Building. It is equipped with apparatus for special study of soils with the view of giving the student an insight into the formation, composition, and character of soils with reference to its bearing upon soil fertility, adaptability, and all methods of soil treatment affecting the productivity and conservation of soils.

#### FIELD CROPS LABORATORY.

The Laboratory of Field Crops is located on the second floor of the Agricultural Building. A complete set of material is used in the study of types, strains and quality, and the scoring and judging of staple and miscellaneous crops.

#### MECHANICAL HALL.

Mechanical Hall is of brick, forty feet wide and one hundred and fifty-five feet in length, with an ell thirty-five by forty feet,

and contains the machine shop, wood shop, foundry, and forge shop. The shops will accommodate about seventy-five students at one time. Adjoining on the east is a boiler room fifty-three by fifty-four feet.

The work in the shops is made very practical. At present, there are under construction several gas engines, a small steam engine, boiler fronts for a 70 horsepower boiler, emery wheel stands, swing cutoff saw, and tumbling barrel for foundry. The idea in this work is to see that the student is well grounded in the principles underlying the manufacture of machinery, rather than the making of work for exhibition purposes.

The machine shop contains a Corliss engine, which runs the machinery in the whole building, a large iron planer, a shaper, several lathes of different sizes and makes, drill press, grinding machines, milling machine, and a good supply of hand tools, benches, and materials.

The forge shop contains eight Buffalo forges with down draft, which takes the smoke away through underground pipe, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and punching machine, eight anvils of different weights, and all the necessary blacksmith tools for the eight forges.

The wood shop contains one buzz planer, one large cylinder planer, circular saw, band saw, five smaller lathes, one 18-inch pattern maker's lathe, one double column shaper, and twenty-six benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colleau cupola with a capacity of one and one-half tons of iron per hour, one brass furnace of one hundred and fifty pounds capacity; Buffalo pressure blower and core oven.

The boiler room contains three seventy horsepower fire tube boilers, one water tube boiler of one hundred horsepower, and one water tube boiler of one hundred and fifty horsepower, besides feed pumps, injectors, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to seventy-five students at one time.

#### MECHANICAL ENGINEERING DRAWING ROOM.

The equipment includes the usual tables and stools; and among



the special apparatus and instruments may be mentioned the planimeter, odontograph, slide rule, protractor, section liner, etc. A blue print room contains complete facilities for the details of the blue print process. One room is provided with photographic facilities, which will be used to prepare lantern slides and prints illustrating various branches of engineering.

### PHYSICAL CULTURE ROOM.

A large room in the north wing of University Hall is set apart for the use of the department of physical culture, and has been furnished, as far as means were available, with the equipment necessary for systematic training.

### THE ARMORY.

The armory is a large well-lighted room, sixty by eighty feet, occupying the entire basement of the north wing of the University Hall. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Three adjacent rooms are assigned to the military department, and are used as band room, store room, and officers' locker room.

The equipment of the department consists of six hundred Krag-Jorgenson rifles, 18 gallery rifles, Springfield 1903, Cadet and non-commissioned officers' swords, five hundred sets of infantry equipments, national colors, signal flags, ammunition, bugles, etc., and a superior set of band instruments.

The arms and infantry equipments are furnished the University by the national government. The other equipments have been purchased by the University, and belong to the Military Department.

### THE MUSEUM.

A. H. Purdue, Curator.

The museum occupies a large portion of the fourth floor of University Hall. The material of the museum has been collected with the view of facilitating instruction in geology and biology, and also to make it of interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Sloping-top cases with drawers beneath afford space for several thousand specimens.



*Relief Maps.* For illustration in geology and general interest to the public, there have been placed in the museum the following relief maps: Geological relief maps of the State of Arkansas, Colorado Canyon, Central Tennessee, and the United States; a convex relief map of the United States on a section of a globe sixteen feet in diameter; a relief map of Carmel Bay, California; Ice Springs craters, Utah; Yosemite Valley; Palestine; Mount Vesuvius; the State of California; San Francisco Peninsula; and a sectional geological relief map of the Leadville region, Colorado.

*The Mineral Collection.* The mineral collection contains about three thousand specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

*The Petrographic Collection.* This collection consists of a large number of specimens representing sedimentary, igneous, and metamorphic rock. Besides, there is a large collection of building and other stones from different parts of the country.

*Paleontological.* There is a large collection of invertebrate fossils in the museum, mainly representing the fauna of the different geological horizons in northern Arkansas.

*The Major Earle Collection.* Major F. R. Earle has deposited in the museum his private collection of minerals and fossils. The collection was formerly in Cane Hill College.

*The Zoölogical and Botanical Collection.* This collection consists of two hundred birds and mammals, representing eighty species; two hundred reptiles and amphibians, representing forty species, fifteen hundred fishes, representing three hundred and fifty species; one thousand insects and other invertebrates, representing two hundred species; several skeletons.

Donations to the museum will be gratefully acknowledged, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling. The museum is now prepared to receive collections on deposit, and to preserve and to display them under the owner's name until called for.

Though the museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

**ATHLETIC FIELD.**

For the accommodation of the University football and baseball teams and spectators there is an excellent athletic field with a covered grandstand and bleachers. The baseball diamond has recently been rebuilt and greatly improved, the size of the athletic field has been almost doubled, and a first-class quarter-mile running track and football field are under construction. When the improvements now under way are completed the facilities afforded for outdoor exercises will be sufficient for the accommodation of a large number of students.

# ADMISSION TO THE COLLEGE

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## GENERAL CONDITIONS OF ADMISSION.

Candidates for admission are urged to be present on the opening day of the session. Admission at a later date is not refused, but it is attended with greater or less inconvenience.

Students on their arrival at Fayetteville should report promptly to the president. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the institution last attended, or furnish other testimony of good moral character.

Entrance examination will be required of all students entering the University, except those who bring certificates from accredited preparatory schools or from reputable colleges or universities. For the time at which these examinations will be held, see page 50.

A student entering the University for the first time shall secure from the committee on accredited schools a card giving his entrance credit before any classifying officer is authorized to classify him.

## ADMISSION TO THE FRESHMAN CLASS.

For unconditional admission to any Bachelor's course, or to the normal course, a student will be required to present for the year 1911-12 thirteen entrance units. Beginning with September, 1912, the requirement will be fourteen units. Among the units offered for entrance must be included all of the required units for the course which the student chooses to take. Students who desire to enter the regular courses, but are deficient in entrance requirements, may enter and be classified as conditioned students, provided their deficiencies do not exceed three units. Those offering for entrance less than ten units must be classified as special students.

## SPECIAL STUDENTS.

Persons not able to meet the regular entrance requirements may be admitted and classified "special" in the regular degree courses, provided they are twenty years of age and prepared to do satisfactory work in the subjects proposed to be taken; such



persons, though only eighteen years of age, may be admitted as special students in music, art, and short courses in engineering and agriculture.

### REMOVING CONDITIONS.

Conditioned students may remove their conditions in either of two ways: (a) by private study, with or without coach, and by passing satisfactory examinations under the direction of the head of the department concerned; (b) by taking freshman courses under the direction of the classification committee and offering them in satisfaction of the deficiencies. A freshman course of three hours for a year shall count as the equivalent of one entrance unit. Courses offered to satisfy entrance requirements can not be counted as college credit.

No student can be classified in any class higher than freshman until he removes all entrance conditions.

### A UNIT DEFINED.

One unit is regarded as the equivalent of a preparatory course of five periods of forty-five minutes each weekly throughout the academic year of nine months. In science courses two laboratory periods are counted as the equivalent of one recitation period. Credits of less than one unit may be granted for courses that do not run full time.

### ENTRANCE SUBJECTS.

The subjects in which units may be offered for entrance are divided into two groups, as follows:

#### Group A.

Latin, 4 units.

Greek, 3 units.

French, 3 units.

German, 3 units.

English, 3 units.

#### Group B.

Agriculture, 1 unit.

Algebra, 2 units.

Plane Geometry, 1 unit.

U. S. History,  $\frac{1}{2}$  unit or 1 unit.

Physiology,  $\frac{1}{2}$  unit or 1 unit.

Botany, 1 unit.

Zoölogy, 1 unit.

Physics, 1 unit.



General History,  $\frac{1}{2}$  unit or 1 unit. Chemistry, 1 unit.  
Greek and Roman History, 1 unit. Manual Training, 1 unit.  
Modern History, 1 unit. Mechanical Drawing, 1 unit.  
English History, 1 unit. Civics,  $\frac{1}{2}$  unit.  
Physical Geography,  $\frac{1}{2}$  unit or 1 unit. Pedagogy,  $\frac{1}{2}$  unit.  
Psychology,  $\frac{1}{2}$  unit.

Below will be found a detailed statement of the requirements for admission to the different courses:

### FOR THE ARTS AND NORMAL COURSES.

Required:

English, 3 units.  
Algebra, 2 units.  
Plane Geometry, 1 unit.  
History,  $1\frac{1}{2}$  units.  
Elective,  $2\frac{1}{2}$  units.

Candidates for the B. A. degree will be required to present three additional units from Group A, at least two of which must be in one language. Normal students may make up the required number of units from A or B, or from both.

### FOR THE AGRICULTURAL, SCIENTIFIC, AND ENGINEERING COURSES.

Required:

English, 3 units.  
Algebra, 2 units.  
Plane Geometry, 1 unit.  
U. S. History,  $\frac{1}{2}$  unit.  
Botany or Chemistry,  $\frac{1}{2}$  unit.  
Physics, 1 unit.

Required in addition five units selected from Group A or B, or from both.

### EXAMINATIONS IN ENTRANCE SUBJECTS.

The following statement will indicate the amount of work that should enable a student to pass entrance examinations on both required and elective subjects which may be offered in making up entrance credits, but has no reference to what work will be required if college credit is sought in these subjects.

**\*English.**

## A—For 1911-12.

I. *General Reading.* From the list of books mentioned in this section the candidate must choose ten for general reading. He will be expected not to know these minutely, but to have freshly in mind their most important parts. He will, further, be required to write a paragraph or two on each of several topics drawn from them.

## Group 1. (Two to be selected.)

Shakespeare's *As You Like It*, *Henry Fifth*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

## Group 2. (One to be selected.)

Bacon's *Essays*, Bunyan's *Pilgrim's Progress*, Part I; Addison's *The Sir Roger de Coverley Papers*, in *The Spectator*; Franklin's *Autobiography*.

## Group 3. (One to be selected.)

Chaucer's *Prologue*, Spenser's *Faerie Queen* (selections—in 1912, Book 1), Pope's *Rape of the Lock*, Goldsmith's *The Deserted Village*, Palgrave's *Golden Treasury* (first series), Book II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

## Group 4. (Two to be selected.)

Goldsmith's *The Vicar of Wakefield*, Scott's *Ivanhoe*, Scott's *Quentin Durward*, Hawthorne's *The House of Seven Gables*, Thackeray's *Henry Esmond*, Mrs. Gaskell's *Cranford*, Dickens' *A Tale of Two Cities*, George Eliot's *Silas Marner*, Blackmore's *Lorna Doone*.

## Group 5. (Two to be selected.)

Irving's *Sketch Book*, Lamb's *Essays of Elia*, De Quincey's *The English Mail Coach* and *Joan of Arc*, Carlyle's *Heroes and Hero-Worship*, Emerson's *Essays* (selected), Ruskin's *Sesame and Lilies*.

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\*SPECIAL ANNOUNCEMENT.—No candidate will be admitted to the Freshman class in English who does not present official evidence that he has completed the English course of an accredited school, or who does not pass a written examination based upon the requirements mentioned in detail in this catalogue. Furthermore, no candidate will be admitted to this examination who does not certify that he has read all the works prescribed for reading, and studied carefully all the works prescribed for careful study. No substitutions will be allowed.

Group 6. (Two to be selected.)

Coleridge's *Ancient Mariner*, Scott's *The Lady of the Lake*, Byron's *Mazeppa* and *The Prisoner of Chillon*, Palgrave's *Golden Treasury* (first series), Book IV, with special attention to Wordsworth, Keats, and Shelley, Macaulay's *Lays of Ancient Rome*, Poe's *Poems*, Lowell's *The Vision of Sir Launfal*, Arnold's *Sohrab and Rustum*, Longfellow's *The Courtship of Miles Standish*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur* (in 1912. *The Princess*), Browning, *Selections*.

II. *Careful Study.* A certain number of books will be prescribed for careful study. This part of the examination will be upon the subject matter, literary form, and logical structure, and, in addition, the candidate may be required to answer questions involving the leading facts in those periods of English literary history to which the prescribed works belong. The books prescribed for this part of the examination in 1911-12 are:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso* (or in 1912, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*), Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

In connection with the reading and study of the prescribed books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory.

Though there is no formal examination in grammar or rhetoric, the ability to write good English will be considered of the utmost importance. Serious defectiveness in point of spelling, grammar, idiom, punctuation, clear and accurate expression, or division into paragraphs, will be taken as primary evidence of the candidate's unfitness. The candidate may present, as an additional evidence of preparation, an exercise book, properly certified by his instructor, containing compositions or other written work.

#### B—For 1913-14-15.

The examination for these years, as for 1911-12, will emphasize the two main objects of preparation in English:—(1) A command of clear and correct English, spoken and written.



(2) An ability to read with accuracy, intelligence, and appreciation. The only change will be in the list of books for reading and study.

1. *General Reading*—Ten units are to be selected, two from each group:

Group 1.

The Old Testament Books—*Genesis, Exodus, Joshua, Judges, Samuel, Kings, Daniel, Ruth and Esther*; *The Odyssey* (Books I-V, XV-XVII may be omitted); *The Iliad* (Books XI, XIII-XV, XXI, may be omitted); Virgil, *Æneid*.

For any unit of this group a unit from any other group may be substituted.

Group 2.

Shakespeare's *Merchant of Venice, Midsummer Night's Dream, As You Like It, Twelfth Night, Henry Fifth, Julius Caesar*.

Group 3.

Defoe's *Robinson Crusoe* (Part I), Goldsmith's *Vicar of Wakefield*, Scott's *Ivanhoe* or *Quentin Durward*, Hawthorne's *House of Seven Gables*, Dicken's *David Copperfield* or *Tale of Two Cities*, Thackeray's *Henry Esmond*, Mrs. Gaskell's *Cranford*, George Eliot's *Silas Marner*, Stevenson's *Treasure Island*.

Group 4.

Bunyan's *Pilgrim's Progress* (Part I), *The de Coverley Papers*, Franklin's *Autobiography* (condensed), Irving's *Sketch Book*, Macaulay's *Essays on Lord Clive and Warren Hastings*, Thackeray's *English Humorists; Selections from Lincoln*, including at least the two inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, a brief Memoir or Estimate; Parkman's *Oregon Trail*, Thoreau's *Walden*, or Huxley's *Autobiography*, and *Selections from Lay Sermons*, including the Addresses on Improving Natural Knowledge, A Liberal Education, and a Piece of Chalk; Stevenson's *Inland Voyage and Travels with a Donkey*.

## Group 5.

Palgrave's *Golden Treasury* (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy*, and Goldsmith's *Deserted Village*, Coleridge's *Ancient Mariner*, and Lowell's *The Vision of Sir Launfal*, Scott's *Lady of the Lake*, Byron's *Childe Harold*, Canto IV, and *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Miles Standish*, and Whittier's *Snow-Bound*, Macaulay's *Lays of Ancient Rome*, and Arnold's *Sohrab and Rustum*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; Browning's *Cavalier Tunes*, *Lost Leader*, *How They Brought the Good News*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Herve Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

## II. Careful Study.

Shakespeare's *Macbeth*, Milton's *L'Allegro*, *Il Penseroso*, and *Comus*, Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

## Algebra.

Two Units.

Through Milne's *Standard Algebra*, or the equivalent.

## Plane Geometry.

One Unit.

All of plane geometry will be required for admission to the Freshman class. A note-book containing the solution of at least one hundred and fifty original exercises should be submitted for examination.

## United States History.

One-half Unit.

The completion of any good high school history of the United States is sufficient.

## General History.

One Unit.

The University advises that the subject be divided into two years' work—the first year being devoted to ancient and the second year to modern history. For the present the completion of Meyer's *General History* or equivalent will be accepted

**Ancient History.***One Unit.*

Emphasize Greece and Rome. The completion of one of the late text-books on the subject. Five recitations a week for one year.

**Modern History.***One Unit.*

The completion of one of the late high-school text-books on the period. Elective. Five recitations a week for one year.

**English History.***One Unit.*

The completion of a good high school text on the subject. Five recitations a week for one year.

**Latin.***Three Units.*

The minimum requirements in Latin are the reading of four books of Caesar and of four orations of Cicero, or the equivalent in other prose; a thorough knowledge of the forms and of the fundamental constructions of verb and noun; and the ability to translate into idiomatic Latin such sentences as those found in Bennett's Latin Writer. Students offering Virgil should have had four years of competent instruction in Latin, and should have read not less than six books of the *Æneid*. For this a credit of one additional unit will be allowed.

**Greek.***Three Units.*

The requirements can be met by not less than three years of competent instruction in the preparatory school. The ground covered should be the same as that in Greek 1 and 2 (see page 94 of this catalogue), or an equivalent.

**Elementary German.***Two Units.*

The examination will be suited to the proficiency of those who have had two years of German in a preparatory school, and will test (a) the candidate's knowledge of the rudiments of German grammar; (b) ability to read easy prose at sight, and (c) to translate simple English sentences into German. The candidate should have read two hundred pages of easy prose.

**Advanced German.***One Unit.*

The examination will be suited to the proficiency of those who have had at least three years of German in a preparatory school, and will test the candidate's ability to read (a) modern



German prose and poetry at sight, and (b) to translate easy English narrative into German. The candidate should have read three hundred and seventy pages of the works of Riehl (Heyse, Freytag, Baumbach), Heine, and thirty pages of lyrics and ballads.

### **Elementary French.**

*Two Units.*

The examinations will be suited to the proficiency of those who have had two years of French in a preparatory school, and will include (a) the translation at sight of ordinary nineteenth century prose; (b) the translation from English into French of sentences to test the candidate's familiarity with elementary grammar. The candidate should have read three hundred pages of simple prose.

### **Advanced French.**

*One Unit.*

The examination will be suited to the proficiency of those who have had at least three years of French in a preparatory school, and will test the candidate's ability (a) to translate standard French prose and poetry at sight, and (b) to turn easy English prose into French. The candidate should have read six hundred pages in the works of such authors as Daudet, Loti, Sandeau, Corneille, Racine, and Molière.

### **Chemistry.**

*One Unit.*

Remsen's Chemistry (Elementary Course), Freer's Elements of Chemistry, or Hessler & Smith's Essentials of Chemistry, or an equivalent. A laboratory note-book covering two hours of laboratory work per week for one year must be presented for examination.

### **Physics.**

*One Unit.*

Carhart and Chute's high school Physics, Hoadley's Elements of Physics, Adam's high school Physics, or an equivalent. There must be sufficient apparatus to illustrate and make clear the essential qualitative experiments in the text used. A laboratory note-book covering two hours of laboratory work per week for one year must be presented for examination.

### **Physiology.**

*One-half Unit.*

Martin's Human Body, or an equivalent.

**Botany.***One Unit.*

Gray's Lessons in Botany and Vegetable Physiology, or an equivalent. A laboratory note-book covering two hours of laboratory work for one year must be presented for examination.

**Zoölogy.***One Unit.*

Packard's Zoölogy, elementary course, and Boyer's Laboratory Guide, or an equivalent. A laboratory note-book covering two hours of laboratory work for one year must be presented for examination.

**Manual Training and Mechanical Drawing.** *One Unit Each.*

Credits in manual training and mechanical drawing will be accepted.

**Psychology and Pedagogy.***One Unit.*

Text suggested: Dinsmore's Teaching a District School, or Kern's Among Country Schools.

**Agriculture.***One Unit.*

One year's work consisting of five forty-five-minute periods weekly will receive one unit credit. A detailed statement from the former instructor of the student must be presented, giving a description of the work done. E. B. Voorhees' First Principles of Agriculture is recommended as a text.

**ORDER OF EXAMINATIONS FOR ADMISSION IN 1911.**

*Wednesday, September 20*—9 a. m., registration of students; 1 to 3 p. m., Geometry.

*Thursday, September 21*—1 to 4 p. m., Algebra.

*Friday, September 22*—1 to 4 p. m., Latin.

*Saturday, September 23*—9 a. m. to 12 m., English Composition and Literature; 1 to 2:30 p. m., United States History; 2:30 to 4:00 p. m., General History.

The order of examinations in other subjects will be announced at the opening of the University.

**EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.**

Students living at a distance from the University may obtain special examinations near their homes, if applied for in due

time before the beginning of each session. The questions will be sent on application to the principal of any school, or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

#### ADMISSION BY CERTIFICATE.

The graduates of accredited schools are admitted to the Freshman class in the University without examination, provided, in all cases, certificates from the principal of the school attended be presented, containing specific statements of the kind and extent of work done in the studies in which credits are desired. Blank forms for such certificates will be furnished by the University. *Diplomas of graduation will not be accepted in lieu of certificates.* Students from schools regularly accredited to other reputable colleges and universities will be admitted to the Freshman class without examination, *provided*, they present evidence that such schools are duly accredited and that they have completed the work required for admission to the Freshman class of this University in the courses which they desire to take.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

#### ADMISSION TO ADVANCED STANDING.

Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subject previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing, may, on the presentation of the proper certificates as to the studies pursued, be admitted provisionally to such standing and upon such terms as the faculty may deem equitable in such cases. College credit for work done in high



school above the number of units required for entrance may be given to students coming from class A high schools, provided the work is of college grade.

### ACCREDITED SCHOOLS SYSTEM.

A school desiring to be placed on the accredited list of the University should apply to the chairman of the accredited school committee. In response to the application, a blank form, inquiring into the course of study, teaching force and equipments of the school, will be sent to the principal. This blank should be carefully filled out, giving accurately and in detail the information called for, and returned to the accredited school committee. If the statement is satisfactory the school may be requested to submit specimen examination papers in all subjects of the two highest grades. Outline maps should accompany history papers, composition exercises should be included among all language papers, and students' note-books should accompany science papers. The high school authorities should grade these papers before sending them out. After the University has looked over them, it will probably send a representative to make a personal inspection of the school, and upon his favorable report will place the school upon the accredited list.

### CLASSES OF SCHOOLS.

The accredited school list is made up of three groups of schools. Group A includes all high schools satisfactorily preparing students in a minimum of fourteen units; group B, all schools preparing students in a minimum of eleven units; and group C, all schools preparing students satisfactorily in a minimum of eight units. A unit represents approximately the amount of work done in one subject in thirty-six weeks with the equivalent of five recitations per week with a minimum period of forty minutes. When the term is less than nine months or the recitation period shorter than forty minutes, a correspondingly longer time than one year in a subject will be necessary to complete a unit. In classifying schools into groups the number of units will not be the sole consideration; on the contrary, teaching force, equipments, number of high school students, and the common school course upon which the high school is based will be taken into account. Teaching force is quite as important a

factor as number of units. In other words, the physical condition making efficient high school work possible must exist before a school is accredited. The University looks with disfavor upon schools with pretentious courses of study where the equipments and teaching force are inadequate.

In general, schools of group A should have at least three teachers devoting their entire time to high school work; schools of group B, a minimum of one and one-half teachers, and schools of group C, not less than one teacher. It will usually be found that group A is made up of schools offering a full high school course of four years, group B of schools with three years of high school work, and group C of schools with a high school course of two years. This grouping rests upon natural and fundamental conditions underlying the growth of high schools. It does not reflect upon any high school to be classed B or C. The classification rests upon the amount of work that the school is able to do well and not upon relative efficiency. Schools of group C are presumed to teach the eight or more units offered by them as well as the schools of group A teach the same subjects. What group a school falls into is determined largely by physical conditions, such as teaching force, equipments, number of pupils and financial support.

It should be remembered that graduates from schools of group C can not enter the Freshman class of the University. Two courses are open to such of them as may want to come to the University. They can enter the third year of some neighboring high school and complete the course there, or by private study they may prepare to stand the entrance examinations on enough work to enter the Freshman class. Moreover, graduates of group B will not satisfy all entrance requirements, as the University will require fourteen units for entrance after 1911-12. Graduates of such schools will enter with conditions, that is, with two or three units back. A student will be allowed to make up this deficiency after entering the University. Prospective University students in high schools should take notice that the policy of the University is to discourage their coming to the University until they have graduated from the high school. The University proposes to encourage in every possible way the growth of secondary schools. Beginning with September, 1912, the University will not receive, without examination, a student under twenty years of age from any high school within the state unless

he is a graduate of said school, except upon the recommendation of the superintendent, principal, or board of said high school.

There is a close relationship between the course of study and the teaching force. In general, a high school teacher should not meet more than six classes a day. Moreover, the high school must be based upon a common school course of at least seven grades. Schools are therefore advised not to attempt more than the teaching force will permit. Schools seeking credit for sciences should provide laboratories for experimental work and should require the pupils to prepare note-books. In the matter of science, the school should develop the work as the resources of the community will permit. Schools in group C should not attempt work in science at all; it is extremely doubtful whether schools in group B should offer any science courses. Schools in group A should build up a laboratory for one science at a time, and add courses as the teaching force and laboratory equipments will allow. It is far better to offer a thorough course in one science than to cover superficially several courses.

The University offers a wide list of electives from which a student may select in making up his entrance requirements. In offering such a list the University does not expect that many schools will attempt to offer instruction in all the subjects enumerated. The list is designed to extend liberty to the student seeking admission and to school authorities in adjusting their courses of study to local needs. Schools in preparing their courses of study are not asked to sacrifice the interests of the locality merely to prepare students for the University. The school's duty to its local constituency is paramount. The high schools that best serve their constituents are the class of schools that the University wishes to foster. Let the high schools work out courses of study best adapted to local needs and the University will adjust its work to them. The University will be glad to send a man to inspect any school desiring it. Correspondence is solicited. Address the chairman of the accredited school committee, Fayetteville, or B. W. Torreyson, Professor of Secondary Education, Little Rock.



## LIST OF ACCREDITED SCHOOLS.

## Class A.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Ashdown High School	L. E. Quinn	14½
Arkansas State Normal	J. J. Doyne	23½
Amity High School	S. M. Samson	14½
Arkadelphia High School	B. F. Condray	17
Arkansas Cumberland College	C. D. Crawford	
Booneville High School	J. S. Cheek	22½
Brinkley High School	David Bowen	14½
Charleston High School	A. Starbuck	14
Clarendon High School	Jack McCulloch	16½
Camden High School	Asa McCain	16½
Clary Farming School	J. H. Thatcher	16½
Conway High School	W. B. Hubbell	14½
Crossett High School	D. C. Hastings	16
Dardanelle High School	C. R. Ward	15
De Queen High School	G. A. Sullards	14
El Dorado High School	T. C. Abbott	20
Eureka Springs High School	C. S. Barnett	15½
Fayetteville High School	F. S. Root	17
Forrest City High School	P. C. Miller	16
Fordyce High School	C. E. Condray	18½
Fort Smith High School	J. W. Kuykendall	28
Guthrie (Okla.) High School	W. S. Calvert	
Hamburg High School	F. W. Whitesides	17
Helena High School	S. H. Spragins	19½
Hope High School	W. J. Hammond	19
Hot Springs High School	F. W. Miller	25
Jonesboro High School	D. T. Rogers	18
Little Rock High School	R. C. Hall	28

## Class A.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Little Rock College		22½
Lonoke High School	O. E. Williams	14½
Magnolia High School	J. P. Womack	18
Malvern High School	R. P. Bowen	14½
McAlister (Okla.) High School	B. H. Locke	

Marianna High School	J. H. Andrews	14
Monticello High School	R. H. Cannon	14½
Paragould High School	H. R. Partlow	17
Paris (Texas) High School	J. P. Downer	23
Pine Bluff High School	Junius Jordan	20½
Portland High School	J. R. Anders, Jr.	16½
Rogers High School	A. B. Mayberry	15½
Rogers Academy	J. F. Eaton	21
Russellville High School	W. A. Crawford	16½
Siloam Springs High School	J. B. Bunn	16½
Springdale High School	W. J. Peterson	21
Stuttgart High School	J. P. Murphey	16½
Stuttgart Training School	C. Orear	19½
Texarkana High School	Geo. W. Reid	18½
Tulsa (Okla.) High School	J. G. Masters	
Van Buren High School	J. R. Williams	20½
Warren High School	J. A. Presson	18
Warren Training School	D. L. Paisley	21
Washington High School	E. W. McGough	14
Western Military Academy	A. M. Jackson	

## Class B.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Atkins High School	J. P. Bingham	13½
Augusta High School	W. P. Mawry	12
Bellefonte High School	J. C. Eaton	12
Bentonville High School	W. D. Jeter	11½
Benton High School	W. F. Wilson	12
Berryville High School	W. D. Crawford	12
Cale High School	E. B. Jones	11
Carlisle High School		12
Choctaw High School	W. E. Halbrook	11½
Clarksville High School	J. W. Sallis	12½
Corning High School	J. L. Bledsoe	11½
Dermott High School	U. C. Barnett	13
Gentry High School	G. M. Wood	13
Gravette High School	E. W. Machen	12
Harrison High School	C. L. Moore	11½

Hesperian High School,		
Lockesburg .....	A. H. Abbott .....	11
Mena High School .....	W. T. Adams .....	13½
Mountain Home Academy .....	Joe George .....	12
Nashville High School .....	R. H. Kolb .....	12
Paris High School .....	G. S. Minmier .....	12
Prairie Grove High School .....	W. C. Murphey .....	12
Prescott High School .....	O. L. Dunaway .....	12½
Stamps High School .....	J. C. Hennon .....	13½
Waldron High School .....	C. Henderson .....	13
Wynne High School .....	H. A. Woodward .....	13½

## Class C.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Argenta High School .....	E. B. Gardner .....	8½
Batesville High School .....	Sidney Pickens .....	8½
Blytheville High School .....	Edgar Williams .....	10½
Beebe High School .....	O. T. Richardson .....	10½
Clinton High School .....	T. W. Abbott .....	9½
Cotter High School .....	C. L. Pierce .....	10
Cabot High School .....	H. W. Roberts .....	9
Des Arc High School .....	J. J. Nall .....	8½
England High School .....	T. E. Guerin .....	9
Evening Shade High School .....	D. L. Ford .....	8
Gurdon High School .....	N. M. Whaley .....	9½
Harrisburg High School .....	W. E. Darby .....	10½
Havana High School .....	M. Sullivant .....	8½
Hazen High School .....	E. A. Funk .....	9
Lewisville High School .....	J. F. Bright .....	10½
Marshall High School .....	S. E. Duff .....	8
Morrilton High School .....	W. E. Simpson .....	9
Newport High School .....	W. L. Wallace .....	10
Osceola High School .....	T. D. Lewis .....	9
Ozark High School .....	W. S. Williams .....	9
Plummerville High School .....	M. L. Milner .....	10
Pocahontas High School .....	W. F. Spikes .....	8½
Quitman High School .....	T. M. Norwood .....	8
Rector High School .....	Mack Berr .....	8



Searcy High School .....	S. J. T. Wynne.....	10½
Walnut Ridge High School .....	Mrs. N. D. Lawson .....	9½
Wilmar High School.....	D. W. Clements .....	9
Yellville High School .....	I. W. Blacklock.....	10

## MISCELLANEOUS INFORMATION

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### SELECTION OF COURSES OF STUDY.

Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the order prescribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the course of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the faculty.

### NUMBER OF RECITATIONS.

All students are required to take not less than twelve nor more than eighteen recitations or their equivalent per week, exclusive of military science and tactics. A student in the Arts or Normal courses who fails in any course, or who makes a grade not higher than F in a majority of his courses, shall not be permitted to carry more than sixteen hours in the succeeding term or year. It is assumed that each hour of recitation involves approximately two hours of preparation, and each two hours of laboratory one hour of preparation on the part of the average student. Therefore, in general, two hours of laboratory work are counted as the equivalent of one hour of recitation; but in cases where laboratory work done under the supervision of an instructor does not require outside preparation, three hours shall be the equivalent of the unit of credit.

### CLASSIFICATION OF STUDENTS.

The satisfactory completion of the work of a class as attested by daily recitations and examinations is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than seven hours per week required for such studies or more than seven hours per week omitted from the studies of a given class prevent enrollment therein.

### CONDITIONS FOR GRADUATION.

All students applying for graduation shall, at the beginning of the year in which they expect to graduate, notify the committee on accredited schools of their candidacy; and it shall be the duty of this committee, within one month after the beginning of the session, to ascertain whether such students have fulfilled all entrance requirements to the courses in which they expect to graduate, and in case they find any who have not fulfilled the requirements, to notify them of that fact.

### MID-YEAR AND FINAL EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations, of the monthly tests, and of the examinations, and are divided into five groups, as follows: Excellent (E); Good (G); Fair (F); Conditioned (C); Poor (P). A grade not lower than F is required for a "pass," which is the equivalent of about 75 per cent. A student who receives a grade of C may remove his condition by doing satisfactory work in the same course during the succeeding term. At the end of each term a report is made to the parent or guardian of each student, showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the professor in charge of the department to which the study belongs not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

4. Students who at the end of any term have not passed on as much as seven hours' work, are, in the absence of extenuating circumstances, dropped from the rolls of the University. For the enforcement of this rule the Committee on Doubtful Cases is responsible.

### EXEMPTION FROM EXAMINATION.

Any student whose daily standing in a particular course is not less than E and who shall have received a grade of not



less than E on at least three monthly tests, shall be excused from examination in that course. No others shall be excused for any reason.

### MONTHLY TESTS.

It is the duty of the heads of departments to require monthly tests in all classes where a majority of the students are Freshmen or Sophomores. It is also their duty to have each student whom these tests show to be delinquent interviewed with respect to his work, and to report the name of such student to the Committee on Doubtful Cases.

### APPOINTMENT OF BENEFICIARIES.

Beneficiary appointments entitle the holders to free tuition. Such an appointment may be obtained from the county judge of the county in which the student resides, or from the president on arrival at the University. The total number of beneficiaries allowed to the State is one thousand.

### EXPENSES.

It is the object of the University to give the best possible education at the lowest possible cost. Tuition is free to all students. A matriculation fee of ten dollars is charged all candidates for admission. The following estimates are based upon the actual expenses of students during recent sessions:

Clothes, including uniform. . . . .	\$ 20 00	\$ 40 00	\$ 65 00
Board, laundry, etc. . . . .	112 00	120 00	135 00
Books, instruments, etc. . . . .	10 00	15 00	20 00
Incidentals . . . . .	15 00	30 00	35 00
Matriculation fee . . . . .	10 00	10 00	10 00
	<hr/>	<hr/>	<hr/>
	\$167 00	\$215 00	\$265 00

Each student occupying a room in one of the dormitories is charged a fee of five dollars per year. To have a room reserved, this fee must be paid not later than September 1.

Fees are payable in advance. Board bills in the dormitories are payable monthly in advance. A diploma fee of five dollars is charged all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

### STUDENT LABOR.

A large part of the student body work during vacant hours to meet part of their expenses.

The general assembly has established a student labor fund, which provides for deserving young men and women who need help to meet their college expenses. Considerable manual and clerical labor is necessary to carry on the various departments of the University, and students who desire to work are employed when practicable and paid at the rate of ten cents per hour. The requests for work always exceed the amount of money appropriated, and the University makes no promises to furnish employment for wages to all who apply.

### BOARD FOR YOUNG MEN.

A fee of five dollars is charged each occupant of a room in the University dormitories. Students leaving the University frequently sell their furniture at a small reduction. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the faculty whenever it is deemed necessary.

Students boarding elsewhere are under the supervision of the president of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the president.

### BOARD FOR YOUNG WOMEN.

Young women, who, for any reason are unable to room and board at the dormitory, may secure rooms in private families in the town. A list of approved boarding houses has been arranged by the dean of women, Miss Elva L. Sly, Ella Carnall Hall, and all young women desiring board in town should consult her before securing homes. All young women in the University are under the general supervision of the dean of women and are subject to the following regulations:

1. Young ladies and young gentlemen are not allowed to board at the same place.

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NOTE—The reception committee of the Y. M. C. A. will endeavor to meet all trains and assist the incoming students in finding eligible boarding places.

2. Young ladies are not allowed to change their boarding places without permission from the dean of women.

3. Callers may be entertained only on Friday and Saturday evenings and also on Sunday evening when a young man desires to accompany a young lady to church.

4. Callers are expected to leave at 10 o'clock p. m.

5. Young ladies may go out only on Friday and Saturday evenings. This regulation may be suspended for lectures and other high class entertainments.

### STUDENT ENTERTAINMENTS.

Students are not allowed to give entertainments of a social nature except on Friday and Saturday evenings. All such entertainments must close not later than 11 p. m.

### ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son or daughter at any time, without reason assigned, is recognized, but without such withdrawals the student can not be relieved of the obligation to attend the University duties. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the president permits them, in cases where propriety or urgent necessity seem to make them unavoidable, it is held to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the president, stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian to his withdrawal from the University.

### SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the general assembly of the State of Arkansas, it is unlawful for any person to sell or give away any vinous or ardent spirits within five miles of the University of Arkansas.



**PUBLIC APPEARANCE.**

Public appearance consists in representing the University in dramatic or musical exercises, in intercollegiate debates, in oratorical or athletic contests, in positions of responsibility in student enterprises of a public nature, as delegates from student organizations, or at commencement or other important occasions.

1. Only a regularly matriculated student carrying not fewer than twelve hours is eligible for public appearance.

2. No student is eligible for public appearance who is found to be delinquent in his studies.

3. No person is admitted to any intercollegiate athletic contest who receives any gift, remuneration or pay for his services on the college team.

4. Each candidate for public appearance is required to subscribe to and file with the chairman of the committee on public appearance in advance a written statement that he is eligible under the letter and spirit of these rules.

5. All officers elected by student organizations to represent the University in a public capacity are subject to the approval of the Committee on Public Appearance.

6. The right to wear the "Varsity A" is subject to the approval of the Committee on Public Appearance.

7. No person having represented the University in any form of public appearance during any year and having been in attendance less than one college half year is eligible for public appearance thereafter until he has been in attendance six consecutive calendar months.

**SECRET SOCIETIES.**

The following rules for the regulation of secret societies have been adopted by the faculty:

1. No student shall be initiated in any secret student organization, whether it be a Greek letter fraternity, sorority, or other secret society, until he shall have been officially informed by the recorder of grades that he has completed all the work preparatory to admission into the Freshman class of the University and has completed the equivalent of not less than fifteen hours of collegiate work for one term; and, provided, that students who

are taking special courses, short courses, or who may be candidates for the L. I. certificate may be initiated if they are entitled to entrance and collegiate credits equal to the above requirements.

2. Any Greek letter fraternity or other secret organization that shall pledge for membership or initiate any student until he has complied with the aforesaid conditions shall thereby forfeit its right to exist and shall no longer exist in the University of Arkansas.

3. If any fraternity shall permit its members to drink wine, whiskey, beer, or other intoxicants, in its chapter house or meeting place, or allow such liquors to be kept or stored there, or shall permit any gambling or other violation of law therein, or shall keep a disorderly house or place, such fraternity shall be cited for trial before the faculty, and upon proof being adduced establishing any of the above-mentioned offenses, such fraternity shall not be allowed to exist longer under its own name or under any other form or name in the University of Arkansas.

# UNIVERSITY ORGANIZATIONS

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## YOUNG MEN'S CHRISTIAN ASSOCIATION.

B. W. DICKSON, A. B., General Secretary.

**OBJECT**—The Young Men's Christian Association stands for the development of the man, physically, mentally, and spiritually. Its object is to lead students to become disciples of Jesus Christ as their Divine Lord and Savior, to lead them to join the church, to promote growth in Christian faith and character and to enlist them in Christian service.

Its mission is to befriend and help those who need friends and help; to apply to practical college life the principles of Christian faith; to stimulate men to develop a well-proportioned, all-round manhood; to train men for intelligent, aggressive Christian work; to bring to bear upon the University life a vigorous and healthful influence—in short to prepare an army of men to go out from the institution to become religious leaders in their communities, as they will there become the business, social, and intellectual leaders.

**WORK**—The Association has for its special work the carrying on of Bible study and mission study in small groups led by students who have had special training in normal classes.

Religious meetings are held each Sunday afternoon in the Association Hall, at 2:30. At these meetings addresses are given on such subjects as the following: The Principles that Should Guide a Man in the Choice of a Life Work; The Ministry; The Association Secretaryship; Mission Work, both Home and Foreign; Christian Stewardship; Higher Ideals of Life; Personal Purity; General Religious Topics.

Special evangelistic meetings are held at least once a year. Other religious work is carried on by the weekly prayer meetings on Wednesday night from 6:30 to 7:00 in the Association rooms, and on Friday nights in the dormitory parlors. Personal work is also encouraged among the Christian men.

**BIBLE STUDY**—Special emphasis is placed on the study of the Bible. Group classes of from five to ten men are organized among the students in boarding houses and dormitories under the direction of chosen leaders.



The Bible study is divided into four parts corresponding to University years. The classes meet once a week and under the direction of their leader they discuss the points that have been studied during the week. The objects of these courses are the devotional, practical, and daily study of the Bible.

The courses for 1911-12 are as follows:

*Freshman Courses*—The Life and Work of Jesus according to St. Mark, by W. D. Murray. Studies in the Life of St. Paul, by A. J. Leacock; and Studies in the Life of Jesus Christ, by E. I. Bosworth.

*Sophomore Course*—Life of Christ, with Harmony of the Gospels, by Sharmon and Burton.

*Junior Course*—Acts and Epistles, Records and Letters of the Apostolic Age, by Bosworth and Burton.

*Senior Courses*—Studies in Old Testament Characters, by W. W. White, and The Social Teachings of Jesus, by J. W. Jenks.

Other courses will be added from time to time. As a help to these courses, the following books are recommended as references and parallel reading:

Schurer's "History of the Jews in the Time of Christ," five volumes.

Mathew's "History of New Testament Times in Palestine."

"Studies in Oriental Social Life," by Trumbull.

"Sketches of Jewish Social Life," by Edersheim.

"Historical Geography of the Holy Land," by George Adam Smith.

"Life and Times of Jesus, the Messiah," by Edersheim.

"The Student's Life of Christ," by Gilbert.

"Life of Christ," by Stalker.

*MISSION STUDY*—The mission study department offers four courses of study for 1911-12, as follows:

*Freshman Course*—"Aliens or Americans?" by Howard B. Gorse, and "Negro Life in the South," by W. D. Weatherford.

*Sophomore Course*—"A Handbook of Comparative Religion," by S. H. Kellogg.

*Junior Courses*—"Dawn on the Hills of Tang," by Dr. Harlen P. Beach, and "Protestant Missions in South America," by Dr. Harlen P. Beach and others.

*Senior Course*—"Islam: A Challenge to Faith," by Dr. S. M. Zwemer.

As parallel readings, the following are recommended:

"The Evangelization of the World in This Generation," by John R. Mott.

"Social Evils in Non-Christian Lands," by Dennis.

"Effective Workers in Needy Fields."

"Call of the Homeland."

"Japan and Its Regeneration," by Otis Cary.

"McKay of Uganda," by J. W. Harrison.

**STUDENT VOLUNTEER MOVEMENT**—Another branch of the Missionary Department is the Student Volunteer Movement for Foreign Missions. This movement was organized in 1886 at Mt. Hermon, Mass. Its fourfold mission is (1) to lead students to a thorough consideration of the claims of foreign missions upon them as a life work; (2) to foster the purpose of all students who decide to become foreign missionaries, by helping to guide and stimulate them in mission study, and in work for missions until they pass under the immediate direction of the foreign boards; (3) to unite all volunteers in an organized, aggressive movement; (4) to create and maintain an intelligent, sympathetic, active interest in foreign missions among students who are to remain at home, in order that they may back up this great enterprise by their prayers, their efforts, and their gifts. The movement holds an international convention every four years.

The Volunteer Band of the University was organized March 28, 1906, with six members. At present there are nine members.

To those interested in missions, the following books and pamphlets are suggested:

"Home Ties."

"Supreme Decision."

"What Constitutes a Missionary Call."

"A Missionary Appeal to Students."

"The Pastor and Modern Missions."

"Heroes of the Mission Field."

"The Price of Africa."

"Princely Men of the Heavenly Kingdom."

**MEMBERSHIP**—Membership in the Association is of three kinds: Active, associate, and sustaining. Any man, either

student or professor, who is a member of an evangelical church, and approves the objects of the Association, may become an active member.

Any man, either student, member of faculty, or instructor in the University, of good moral character, may become an associate member.

Any man desiring to aid in the support of the Association may become a sustaining member by contributing as much as \$1.00 to the work of the Association.

The annual dues for active and associate members are \$1.00.

EQUIPMENT—The equipment of the Y. M. C. A. consists of a suite of four rooms, composed of an office, an auditorium, and two small rooms for Bible and mission study. These are furnished, lighted, heated, and supplied with the leading magazines and papers.

BUREAU OF INFORMATION—The Association conducts a bureau of information, and will always be glad to help any student desiring assistance. A reception committee meets all trains at the opening of school and assists the students in securing good boarding places. All correspondence during the summer in regard to the Association should be directed to the General Secretary.

SOCIAL—On the first Monday night after the opening of the University, a reception, which is commonly called "College Night," is held for the men, where leading men speak on different phases of University life, and the young men learn the University songs and yells. A general good time with wholesome fellowship is enjoyed.

Also during the year receptions are given. Two joint receptions of the Y. M. C. A. and Y. W. C. A. and one or two "stag" receptions are given.

The individual Bible class will be entertained at various intervals during the year.

INDORSEMENT—The trustees and faculty of the University heartily recommend the work of the Association, and it is earnestly desired that every parent or guardian see to it that the student under his care be encouraged to join the Association as soon as he reaches the University.



### YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The Young Women's Christian Association, founded September 20, 1904, is composed of young women seeking to develop their Christian character, and to win others to Christ. Prayer meetings are held Friday evenings, and the regular religious services Wednesday afternoon. During the past year the membership of the Association has been about one hundred and twenty, with nearly one hundred enrolled in Bible study and sixty-five in mission study. The Association gives several entertainments during the year, endeavoring through these to arouse a spirit of friendship among all the young women. The members of the Association will gladly assist in any way young women just entering the University.

### LITERARY SOCIETIES.

There are six literary societies: The Mathetian, founded in 1873; the Garland, founded in 1886; the Periclean, founded in 1901; the Sapphic, founded in 1906; the Lee, founded in 1906; the Demosthenean, founded in 1907. The Mathetian Society is composed of students of both sexes; the Garland, Periclean, Lee, and Demosthenean societies, of male students; the Sapphic, of female students. The weekly meetings of the six societies afford excellent opportunities for improvement in composition, declamation, debate, etc.

### ELECTRICAL ENGINEERING SOCIETY.

The University of Arkansas Branch of the "American Institute of Electrical Engineers," which was established at the University in 1904, holds regular meetings on the first and third Tuesdays of each month.

Original papers are read, and advance copies of papers to be presented at the Institute meetings in New York are read and discussed. All students interested in electrical science are eligible to membership.

### MECHANICAL ENGINEERING SOCIETY.

The University of Arkansas Student Section of the American Society of Mechanical Engineers was organized in 1909, and holds regular meetings on the second and fourth Mondays of each

month. Original papers by the members of the Society, by members of the University Faculty, and selections from the Society Transactions are read and discussed. The late discoveries in the research world are commented upon. At least one engineer of note will lecture before the Society during each scholastic year.

Any student pursuing an engineering course is eligible to membership.

### ENGLISH CLUB.

The English Club, founded February 9, 1906, consists of University teachers and advanced students of English. This society is now making a special study of spoken English. Papers relating to the different phases of English Philology are read at the meetings, which occur every other Thursday.

### CERCLE FRANCAIS.

The Cercle Francais was founded by Professor Antonio Marinoni in 1905. Its object is to encourage the use of spoken French and to promote the study of French life and literature. Meetings are held fortnightly in private houses.

### STUDENT PUBLICATIONS.

There are two publications issued by the student body: *The University Weekly*, devoted to current events in all departments of the University; and the *Cardinal*, which is published annually, and gives a history of the college year. The *Weekly* is edited by a board selected from the entire student body; the *Cardinal* is published by the members of the Junior class.

### GLEE CLUB.

The University of Arkansas Glee Club is a student musical organization, membership in which is open to men students and is determined by competition.

The club gives its annual concert at some time during the second term and also gives concerts at different places in the state.

## PRIZES

### THE WILLIAM JENNINGS BRYAN PRIZE.

A prize fund of \$250 has been bestowed upon the University through the liberality of Hon. W. J. Bryan, of Nebraska, and a prize named in his honor and consisting of the annual income of this fund will be offered each year, provided that productions worthy of its bestowal are presented.

The prize will be awarded for the best essay on some topic relating to the problems of government, and the subjects for competition will be selected in the alternate years by the department of economics and sociology, and the department of history. The contest will be open to students who have junior or senior standing, more than half of whose work has been of the Grade G, and to special students in the collegiate department who have thirty-two hours' credit of a similar grade.

The subject for the year 1911-12 will be announced in September, 1911. Further details of the plans of competition may be obtained from the professor of economics and sociology. The competitive essay must be submitted by the first of May, 1912.

### THE JOHNSON PRIZE.

Professor W. S. Johnson offers a valuable loving cup to be competed for in an oratorical contest open to the members of the literary societies.

### BROUGH DEBATING MEDAL.

Professor Charles Hillman Brough, of the department of economics and sociology, offers a medal of the value of \$20, or \$20 in money, as a prize for excellence in debate, to be contested for by two representatives from each of the literary societies of the University. Two debates are held during the session; one a formal, in which the speeches are prepared, and valued at sixty per cent; the other, an informal, in which the speeches are impromptu, and valued at forty per cent. These debates are designed to train students of the University in the art of forensic speaking, and to promote a friendly rivalry among the literary societies.



**PRIZE IN THE PERICLEAN SOCIETY.**

Miss Naomi Josephine Williams, instructor in the preparatory school, offers a prize for the best oration written and delivered by a member of the Periclean Society.

**THE WINGO MEDAL.**

Hon. Otis T. Wingo, of De Queen, Arkansas, a former member of the State Senate, offers a medal of the value of ten dollars for the best declamation. All male students are eligible to compete for this medal.

**THE TILLMAN MEDAL.**

President John N. Tillman offers a gold medal for the best essay by any member of the Sapphic Society.

**THE A. B. BANKS INSURANCE PRIZE.**

Mr. A. B. Banks, President of the A. B. Banks Insurance Company, of Fordyce, Arkansas, offers a prize of \$50 to any student of the University of Arkansas, taking economics, writing the best essay on some fire insurance topic, selected by the economic staff of the University. By special arrangement with Mr. Banks, this prize is divided between the writers of the first, second, and third best essays, in the ratio of \$25, \$15, and \$10, respectively.

**THE REICHARDT GOOD ROADS PRIZE.**

Mr. W. F. Reichardt, Associate Member American Society of Civil Engineers, of Little Rock, Arkansas, offers a prize of \$50 to any student of the department of Civil Engineering, writing the best essay on some topic relating to roads or pavements. The donor hopes to develop a better interest in this subject throughout the State.

## CHAPEL EXERCISES

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Religious exercises, conducted by Mr. B. W. Dickson, General Secretary of the Y. M. C. A., or by an invited clergyman, are held in the University chapel every morning at twenty minutes past eight.

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## CHURCHES

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The churches of Fayetteville cordially welcome the students to their Sunday Schools and various meetings of prayer and religious instruction. Many students are actively engaged in the work of the different church societies and guilds.

The pastors of the city are actively interested in the spiritual welfare of the students. There follows a list of the local churches and pastors, with the addresses of the latter:

*Baptist*—Rev. M. L. Sheppard, 229 College Ave.

*Christian*—(First)—Rev. W. T. Hilton, 409 E. LaFayette Ave.

*Christian* (Second)—Rev. John Hinds, Hill St.

*Central Presbyterian*—Rev. M. L. Gillespie, 308 W. Charles St.

*Methodist Episcopal*—Rev. J. F. Ross, cor. W. Rock and School Sts.

*Methodist Episcopal, South*—Rev. M. N. Waldrip, 309 Highland Ave.

*Methodist Protestant*—Rev. J. H. Kilgore, Leverett St.

*First Presbyterian*—Rev. R. B. Willis, Washington Ave.

*Protestant Episcopal*—Rev. W. D. Du Hamel.

*Roman Catholic*—Father Patrick H. Boyle, 354 N. Willow St.

## DEGREES

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The following degrees are conferred by the University:

For undergraduate work:

Bachelor of Arts (B. A.).

Bachelor of Civil Engineering (B. C. E.).

Bachelor of Electrical Engineering (B. E. E.).

Bachelor of Mechanical Engineering (B. M. E.).

Bachelor of Mining Engineering (B. Mi. E.).

Bachelor of Chemical Engineering (B. Ch. E.).

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Bachelor of Science in Chemistry (B. S. C.).

Bachelor of Science in Physics (B. S. Phys.).

Bachelor of Science in Agriculture (B. S. A.).

For graduate work:

Master of Arts (M. A.).

Master of Science (M. S.).

Civil Engineer (C. E.).

Electrical Engineer (E. E.).

Chemical Engineer (Ch. E.).

Mechanical Engineer (M. E.).

All the courses leading to the different bachelor's degrees are based on four years of collegiate work. The B. A. course is designed to give the student liberal culture; while the engineering and scientific courses are technical. The B. A. course is almost entirely elective, certain safeguards and restrictions being thrown around the student's choice of electives; the technical courses necessarily consist principally of prescribed work.

For the announcements of the several collegiate departments see p. 93 et seq.; College of Agriculture, p. 141 et seq.



# COURSES OF STUDY FOR THE COLLEGIATE DEGREES

## B. A. COURSE.

FRESHMAN	Periods	SOPHOMORE	Periods
English.....	3	English.....	3
A Foreign Language.....	3 or 4	The Foreign Language Pursued in Freshman Year....	3
From Group II.....	3 or 4	From Group II.....	3
From Group III.....	3	From Group III.....	3
Elective.....	2, 3, or 4	Elective.....	4
Total.....	16	Total.....	16

JUNIOR	Periods	SENIOR	Periods
Elective.....	16	Elective.....	16

NOTE.—A period means one recitation per week throughout a college year, or the equivalent in laboratory work. (See page 59.)

### Conditions.

1. Sixty-four periods are required for graduation.
2. Not more than eighteen periods may be taken in any subject, and not more than thirty-six periods in any group.
3. At any time after the student's Freshman year, and not later than the beginning of his Junior year, he shall choose a major subject. After the student has selected his major subject, the professor in charge of that subject shall have control of nine hours' work in each of the succeeding years of the student's course.
4. The classification of all liberal arts students shall be subject to the approval of the classification committee; provided that the major professor, in addition to the number of hours he controls, shall sit as a member of the committee in determining the remainder of his major students' work.
5. Candidates for the B. A. degree shall choose their major subject from groups I, II, or III, and shall offer not fewer than 9 periods for each of these groups. Not more than 9 periods

may be offered from group IV. In the foreign language pursued in the Freshman year the equivalent of two years' work must be offered for admission.

6. In addition to the requirements above mentioned, military science and tactics will be required of male students, or, whenever they are excused, one period per year in other work. One period per year in music, art, elocution, physical culture, or other work, will be required of female students.

### Groups.

I. Greek, Latin, English, German, French, Spanish, Italian.

II. Mathematics, Astronomy, Chemistry, Physics, Geology, Biology.

III. History, Philosophy, Political Science, Economics, Sociology, Pedagogy.

IV. Mechanical, Civil, Electrical, Chemical, and Mining Engineering, Agronomy, Plant Pathology, Entomology, Agricultural Chemistry, Animal Husbandry, Veterinary Science, Dairying, and Horticulture.

### LIST OF COURSES OPEN TO FRESHMEN.

The following courses are open to Freshmen students in the Bachelor of Arts course: Biology 1, Chemistry 1 and 1b, Economics 1, English 1, French 1, Geology 1, German 1, Greek 1, History 2, Italian 1, Latin A and 1, Mathematics 1a, Pedagogy 1, Physics 1, Spanish 1, and elementary courses in Agriculture.

Advanced courses in these subjects may be taken by those Freshmen whose preparatory work has fitted them to pursue such courses.

# COURSE IN CIVIL ENGINEERING FOR THE DEGREE OF B. C. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1c, Algebra, first term.....	3	C. E. 2 and 3, Surveying.....	3
Solid Geometry, second term.....	3	Mathematics 4a, Analytic Geometry and Algebra.....	3
Mathematics 2c, Plane Trigonometry, first term.....	3	Mathematics 4b, Differential and Integral Calculus.....	2
Analytic Geometry, second term.....	3	English 2, French 1, German 1, or Spanish 1.....	3
General Chemistry.....	3	Physics 1.....	3
C. E. 8, Lettering.....	2	C. E. 1, Descriptive Geometry, first term.....	2
C. E. 1a, Drawing.....	2	C. E. 4, Highway Construction, second term.....	1
English 1.....	3	C. E. 4a, Architectural Drawing, second term.....	1
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Mathematics 6b, Algebra and Calculus.....	2	C. E. 15a, Reinforced Concrete, first term.....	2
M. E. 4, Mechanics.....	4	C. E. 15, Field Practice, second term.....	2
C. E. 5, Railroad Engineering.....	2	C. E. 14, Engineering Laboratory, first term.....	2
C. E. 6, Field Practice.....	2	C. E. 11, Sanitary Engineering, first term.....	2
C. E. 8a, Technical Drawing.....	2	C. E. 12, Technical Drawing.....	2
M. E. 9, Hydraulics, second term.....	2	C. E. 13, Waterworks Construction, second term.....	3
*Elective.....	2	C. E. 9, Masonry Construction, first term.....	2
		C. E. 10, Roofs and Bridges.....	4&3
		Geology 5, Blowpipe Analysis, second term.....	2
		*Elective.....	3
		Thesis.....	

\*Electives can be taken only on the approval of the professor of Civil Engineering.



COURSES IN ELECTRICAL ENGINEERING FOR THE  
DEGREE OF B. E. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1c, Algebra, first term; Solid Geometry, second term.....	3	Mathematics 4a, Analytic Geometry, first term; Algebra, second term.....	3
Mathematics 2c, Plane Trigonometry, first term; Analytic Geometry, second term.....	3	Mathematics 4b, Calculus.....	2
English 1, English Composition..	3	Chemistry 1, General Chemistry	3
Physics 1, General Physics.....	3	Physics 2, Advanced General Physics.....	3
E. E. 2, Drawing.....	2	Physics 2a, Laboratory Work....	2
M. E. 1d, b, Shop Work.....	1½	M. E. 1c, c, Shop Work.....	1½
		E. E. 2a, Drawing.....	2
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Mathematics 6b, Algebra and Calculus.....	2	E. E. 8, Alternate Current Theory, and E. E. 9, Polyphase Electric Currents.....	3
English 1a, or German 1, or French 1, or Spanish 1.....	3	E. E. 6, Electrical Laboratory....	2
E. E. 7, Dynamo, Electric Machinery.....	3	E. E. 4, Technical Drawing.....	2
E. E. 3, Technical Drawing.....	2	E. E. 4a, Photometry of Electric Lamps.....	2
M. E. 4b, Mechanics or Physics 4	4	E. E. 11, Telephony and Telegraphy.....	2
E. E. 5, Electrical Laboratory...	2	M. E. 5b, Steam Machinery, first term.....	3
		M. E. 6, Mechanical Laboratory, first term, and E. E. 10, Electric Railways, second term....	2
		Elective.....	2&5
		Thesis.....	2

### COURSE IN MECHANICAL ENGINEERING FOR THE DEGREE OF B. M. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1c, Algebra, first term; Geometry, second term...	3	Mathematics 4a, Algebra, Analytic Geometry.....	3
Mathematics 2c, Plane Trigonometry, first term; Analytic Geometry, second term.....	3	Mathematics 4b, Calculus.....	2
English 1, English Composition...	3	Physics 1.....	3
Chemistry 1.....	3	C. E. 1, first term.....	1
M. E. 2a, Mechanical Drawing...	2	C. E. 17, second term.....	1
M. E. 1b, d, Shop Work.....	2	M. E. 3, Machine Design.....	3
		M. E. 1c, e, Shop Work.....	2
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Mathematics 6b, Algebra and Calculus.....	2	M. E. 7, Machine Design.....	4
M. E. 2b, Mechanical Drawing and Machine Design.....	2	M. E. 8, Mechanical Laboratory	2
M. E. 4, Theoretical Mechanics, first term; Mechanics of Materials, second term.....	4	M. E. 9b, Hydraulic Machinery, two hours per week, first term	1
M. E. 5b, Steam Engines and Boilers, first term; M. E. 5c, Gas Engines and Producers, second term.....	3	E. E. 5, Electrical Laboratory...	2
M. E. 6b, Mechanical Laboratory	2	E. E. 7, Electrical Machinery...	3
M. E. 9a, Hydraulics, two hours per week, second term.....	1	Elective.....	5
M. E. 1f, Advanced Shop Work..	2	Thesis.....	

All elective courses are subject to the approval of the Professor of Mechanical Engineering.

A description of the courses offered in the Department of Mechanical Engineering will be found on page 133.

# COURSE IN MINING ENGINEERING FOR THE DEGREE OF B. Mi. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Chemistry 1 and 5, General Inorganic Chemistry and Qualitative Analysis.....	3	Chemistry 2 and 5, Advanced Inorganic Chemistry and Qualitative Analysis.....	4
*C. E. 1a, Special Drawing.....	2	C. E. 1, Descriptive Geometry, two hours, first term.....	1
English 1, English Composition.....	3	Geology 2, General Geology.....	3
Mathematics 1b and 2a, Algebra and Solid Geometry, Trigonometry and Analytic Geometry.....	6	Geology 5, Crystallography, Mineralogy, and Blowpipe Analysis.....	3
Physics 1, General Physics.....	3	Mathematics 4a and 4b, Analytical Geometry, Trigonometry and Calculus.....	5
		Mining 1, Elementary Mining, two hours, second term.....	1
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Chemistry 6, Quantitative Analysis, three hours, first term.....	1½	Chemistry 7, Quantitative Analysis.....	1
C. E. 2 and 3, Surveying.....	3	E. E. 5, Electrical Laboratory, two hours, first term.....	1
E. E. 12, Direct Current Machinery, three hours, first term, and Geology 3; Field Work, three hours, second term.....	3	M. E. 5, Steam Engines, three hours, first term, and Geology 7; Economic Geology, three hours, second term.....	3
M. E. 4, Mechanics.....	4	†Geology 9, Descriptive Mineralogy, one hour, first term, and Metallurgy 2; Assaying, three hours, second term.....	2
M. E. 9, Hydraulics, two hours, second term.....	1	Metallurgy 1, General Metallurgy.....	3
†Geology 8, Rocks and Metamorphism, two hours, second term.....	2	Mining 3, Advanced Mining.....	3
Mining 2, Details of Mining.....	2	Mining 4, Engineering Problems of Mining.....	3
†Elective.....	2	†Mining 8, Ore Dressing.....	2

\*C. E. indicates Civil Engineering; E. E. Electrical Engineering, and M. E. Mechanical Engineering. The figures after the names are the numbers of the courses as given in the catalogue.

†Electives can be taken only on the approval of the Department of Geology and Mining.

‡Additional work in mechanical and electrical engineering may be substituted for Geology 8 and 9, Metallurgy 2 and Mining 8, by persons desiring to specialize in coal mining.



### COURSE IN CHEMICAL ENGINEERING LEADING TO THE DEGREE OF B. CH. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1c.....	4	Mathematics 4a and 4b.....	5
Mathematics 2c.....	2	Chemistry 2 and 2a.....	3
Chemistry 1 and.....	3½	Chemistry 5 and 6.....	3
Chemistry 5, (second term).....	3½	Physics 1 and 1a.....	3½
M. E. 1b, 1c, 1d.....	3	M. E. 1e.....	1
M. E. 2.....	2	English 2 or.....	3
English 1.....	3	German 1.....	.....
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Mathematics 6b, first term.....	2	Chemistry 8.....	3
Chemistry 3 and 3a.....	4	Chemistry 11.....	1½
Chemistry 7.....	3	Chemistry 13.....	1½
M. E. 3.....	3	M. E. 5.....	3
M. E. 4.....	4	E. E. 5.....	2
M. E. 6.....	2	C. E. 11, first term.....	1
		Business Law, one term.....	1½
		Thesis.....	.....
		Journal Meeting (Chemistry 16).....	.....
		English 2 or French 1.....	3

N. B.—Certain substitutions may be permitted at the discretion of the classification committee.

COURSE IN CHEMISTRY FOR THE DEGREE OF B. S.  
IN CHEMISTRY.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1c and 2c.....	6	Chemistry 2.....	3
Physics 1 and 1a.....	3½	Chemistry 6.....	3-5
Chemistry 1 and Chemistry 5, second term.....	3½	French 1.....	3
English 1.....	3	Drawing 1a.....	2
German 1.....	3	And from 6 to 8 hours of the following:	
		Chemistry 2a.....	2
		Mathematics 4a and 4b.....	5
		Biology 1.....	3
		Geology 2.....	3
		Economics 1.....	3
		History 3a or 3b.....	1½
		English 2.....	2
		German 2.....	3
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Chemistry 3.....	2	Chemistry 6.....	3-5
Chemistry 7.....	3-5	Chemistry 13.....	1½
Chemistry 8.....	1½	Chemistry 17 (Journal Meeting).....	
Chemistry 15.....	1	Thesis.....	
Physics 2 and 2a.....	4	And from 9 to 11 hours of the following:	
And from 5 to 7 hours of the following:		Chemistry 4.....	3
Chemistry 3a.....	2	Chemistry 4a.....	1-3
Chemistry 8a.....	1-2	Chemistry 9, 10 or 12.....	2-4
Mathematics 6b.....	2	Physics 4 or 5.....	1
Geology 5a and 5b.....	3	Biology 7 or 8.....	4-5
Biology 4.....	4	Geology 7 or 9.....	1-3
Scientific French.....	2	Mathematics 9a.....	1½
Scientific German.....	2	English 4.....	2
Shop Work.....	1-2	History 4a or 4b.....	1
		Business Law.....	1½

## COURSE FOR THE DEGREE OF B. S. IN PHYSICS.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1c, 2c.....	6	Mathematics 4a, 4b.....	5
Physics 1.....	3	Physics 2, 2a, 3.....	5
Chemistry 1.....	3	Chemistry 2, 3, 5.....	5
English 1.....	3	French 1.....	3
German 1.....	3		
JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Mathematics 6b, 9a, b, 16.....	7	Mathematics 18.....	3
Physics 4, 5, 10.....	4	Physics 6, 7, 8, 11.....	10
Chemistry 8.....	1½	Chemistry 12.....	1½
E. E. 5, 12.....	3½	E. E. 6, 8.....	3½
C. E. 1.....	1	Thesis.....	
Scientific German and French....	1	Journal Meeting.....	
Journal Meeting.....			



## REQUIREMENTS FOR THE DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

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1. That before a student is admitted to candidacy for a master's degree he shall have received the corresponding bachelor's degree from this University or another institution in which the course of study is fully equivalent.

2. That not less than one year intervene between the conferring of the bachelor's and master's degree.

3. That a course of study in one major, and not more than two minor, subjects, aggregating with a \*thesis sixteen hours, be pursued in residence, and that fourteen of the sixteen hours be taken regularly in the class room.

4. That the major subject, occupying with the thesis, eight hours, shall be at least third-year work in a subject in which the candidate has at least six hours' credit.

5. That six hours' additional work shall be selected in not more than two closely related subjects, in each of which the candidate must have received at least six hours' credit.

6. That all work credited towards a master's degree must be done after the corresponding bachelor's degree has been received.

7. That in computing credit for a master's degree three hours of laboratory work shall be equivalent to one hour of recitation.

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\*See page 87.

## REQUIREMENTS FOR THE DEGREES OF C. E., M. E., E. E., AND CH. E.

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These courses of study are intended to give those students who have finished an undergraduate course in engineering additional preparation in some special line of work to which their previous study has led. Before a student is admitted to one of these courses he shall have received the corresponding bachelor's degree from this University or another institution in which the course of study is fully equivalent. The student will have all reasonable liberty in selecting his course which shall be subject to the approval of the heads of the departments concerned. It is expected that these courses shall comprise one principal subject based on the course already pursued, and two secondary subjects, one or both of which shall be closely related to the principal. The graduate course shall amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above mentioned degrees must be submitted to the head of the department in charge of his principal subject for approval before the beginning of the second term.

These degrees will also be given to graduates of this University in civil, mechanical, electrical, and chemical engineering who have been in successful practice of their profession for three years, and who present a statement of their work, together with a satisfactory thesis on a subject approved by the professor in charge.

*Charges*—Graduate students pay ten dollars for matriculation and registration, ten dollars for tuition (non-residents, five dollars) at the beginning of each session, and ten dollars in advance for the final examination. Students who fail to comply with any of these requirements will be dropped from the rolls. Should such students desire to resume their studies they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is five dollars in advance in each case.

## REQUIREMENTS FOR THESES

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1. Thesis subjects shall be submitted by December 15 of the year of graduation.

2. For a bachelor's thesis the minimum requirement shall be 2,500 words.

3. The thesis for the master's degree shall present the results of research, and shall be given a credit of two hours.

4. The thesis shall be submitted for criticism and approval to a committee of three, consisting of the professor under whom the candidate is doing his thesis work and two others appointed by the president. These must be submitted to the committee by May 10 of the year of graduation.

5. All these shall be neatly typewritten on paper 8x10 inches with a one inch margin. The title shall read:

Subject.....

Thesis submitted by.....to the faculty of  
the University of Arkansas in fulfillment of the requirement for  
the degree of.....

Date.....



## COURSES OF STUDY LEADING TO CERTIFICATES

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In pedagogy and mechanical engineering there are the following courses of study, the completion of which entitles the student to a certificate:

### NORMAL COURSE.

The certificate of Licentiate of Instruction (L. I.) has been established by the board of trustees as a testimonial of one's knowledge of educational principles, and proficiency in the art of teaching. There are three conditions upon which the certificate of Licentiate of Instruction is granted:

*First.* To those who complete either of the prescribed courses of study as given on page 90.

*Second.* To those who elect their major in the department of philosophy and pedagogy. This requires a credit of eleven hours in pedagogy.

*Third.* Where suitable arrangements can be made with the professor in charge of a major subject, one may elect his major in another department and yet receive the L. I. at the same time that he receives his A. B. degree.

### Normal Certificate a License to Teach.

The following is the law relating to the Normal Diploma:

*Be it Enacted by the General Assembly of Arkansas:*

"SECTION 1. That the diplomas from the teachers' training department of the University of Arkansas shall be equivalent to a teacher's professional license, which shall entitle the holder to teach in any public school in the State of Arkansas for a period of six years from and after the date of issue, and at the expiration of that said diploma may be converted into a life certificate, provided the character of the work done by the holder thereof and his or her moral character meet with the approval of the State Superintendent of Public Instruction of the State of Arkansas.

"SEC. 2. That this Act be in full force from and after its passage."

The foregoing law entitles the graduates of the University Normal School to teach in any county in the State for a period of six years; and if the character of the work done is satisfactory to the State Superintendent of Public Instruction, the certificate of Licentiate of Instruction will be converted into a life certificate. This offers special inducements to those who anticipate teaching to attend the University Normal School until they have been granted this certificate.

All the literary work required in the normal courses is done by the professors in the regular bachelor's courses.

The normal department has a well equipped training-school in which all senior normal students are required to do daily practice-teaching under the guidance of the critic teachers.

#### REQUIREMENTS FOR ADMISSION TO UNIVERSITY NORMAL SCHOOL.

The requirements for admission are the same as for Freshmen in the regular B. A. course, with the exception as stated on page 43, viz., that normal students may make up the required number of units for entrance to the Freshman class from either group A or B, or from both.

Normal Course with Science.		Normal Course With Latin.	
FIRST YEAR	Hrs. per week	FIRST YEAR	Hrs. per week
English 1.....	3	English 1.....	3
History 2.....	3	Latin 1 and 1a.....	4
Agriculture.....	3	Mathematics 1.....	4
Pedagogy 1 and 4.....	3	Pedagogy 1 and 4.....	3
Pedagogy 3.....	2	Pedagogy 3.....	2
Elective.....	3	Drawing.....	1
Drawing.....	1	Physical Culture.....	1
Physical Culture.....	1	Total.....	17
Total.....	19		
SECOND YEAR	Hrs. per week	SECOND YEAR	Hrs. per week
English 2.....	3	English 2.....	3
Pedagogy 5.....	4	Pedagogy 5.....	4
Pedagogy 6.....	2	Pedagogy 6.....	2
Science (Elective).....	3	Agriculture.....	3
Elective.....	3	Science (Elective).....	3
Reading or Manual Training.....	1	Reading or Manual Training.....	1
Total.....	16	Total.....	16

All work done in the foregoing courses is, with the exception of drawing and physical culture, credited on the B. A. course. After having completed the normal course, one may, after two years of further study, receive the B. A. degree, provided he has fulfilled the requirements as stated on pages 76 and 77.

### THE TRAINING SCHOOL.

One of the important features of the training of teachers in the Normal School is the teaching in the practice-school. The first year in the normal course is devoted to literary studies and three courses in pedagogy, viz., Elementary Psychology, History of Education, and the Science of Instruction. These professional courses are necessary in order to prepare one to teach in the practice-school.

In the second year, each pupil applying for the L. I. certificate is required to observe and teach one hour each day in the practice-school. Before teaching a lesson, a plan of teaching it is required to be handed in to the critic teachers. If it is satisfactory, then the lesson is taught under the observation of the critic teachers. The cadet-teachers meet with the critic teachers at appointed times for private consultation concerning



their work. Once each week all those taking this work meet with the principal of the Training School and topics demanding immediate attention are discussed.

At the present time, all the eight grades are represented by a few children in each grade. In that way, it is possible to give practice-teaching to those who are preparing for either primary or the higher grades. Those who are preparing for high school work, do their practice-teaching in the higher grammar grades as it nearest approaches the manner of instruction required in the high school.

### MECHANIC ARTS COURSE.

This course of two years is designed to meet the wants of two classes of young men:

*First.* Those who are not able to spend the time required for the completion of the four years' course.

*Second.* Those who lack the necessary preparation for admission to the collegiate classes, and do not wish to become candidates for a degree.

Special attention is given to instruction in shop work, and drawing, sufficient time being given to the former to enable the student to become familiar with its branches, and to acquire proficiency in some chosen one. The time spent in the drawing room will enable the student to make and understand machine drawings.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design, and steam machinery as will enable the student to use and care for machinery intelligently.

The work in this course is made as practical as possible. The intention is to prepare young men to hold responsible positions in power and lighting plants, pumping plants, ice and cold storage plants, shops, and wherever the intelligent operation of machinery is required.

No diploma is awarded, but a certificate will be given on the completion of the course.

## COURSE FOR CERTIFICATE IN MECHANIC ARTS.

FIRST YEAR	Hrs. per week	SECOND YEAR	Hrs. per week
Algebra and Geometry.....	6	M. E. 3, Machine Design.....	3
M. E. 2a, Mechanical Drawing...	2	M. E. 5a, Steam Machinery....	3
M. E. 4a, Mechanics and Hydraulics.....	3	M. E. 6b, Mechanical Laboratory..	2
M. E. 6a, or M. E. 10.....	2	E. E. 12, Electrical Machinery..	3
Shop Work.....	3	Shop Work.....	3

Students entering this course must be 18 years of age.

## \*DESCRIPTION OF COLLEGIATE COURSES

### ANCIENT LANGUAGES.

J. C. FUTRALL, *Professor.*

J. J. JAMES, *Adjunct Professor.*

For students entering with only two units in Latin (see page 48 of this catalogue) course A is provided. Course 1 is intended for those who offer for entrance three units, but may be taken by well-prepared students who offer only two units. Latin 1a must be taken in connection with either A or 1.

Students presenting four units of Latin for entrance will be admitted to Latin 2, but will be required to satisfy the professor of their proficiency in course 1a, or to pursue that course with the class.

Students who desire recommendations as teachers of Latin in the high schools of the State must have credit for at least ten hours of college Latin.

A. CICERO'S ORATIONS AND LETTERS (3)—Six orations and selections from the letters; a review of the forms; drill in the syntax of noun and verb. *No credit will be given for this course until course 1a has been passed.* M. Tu. Th. 1.

ADJUNCT PROFESSOR JAMES.

1. VERGIL'S ÆNEID (3)—Six books of Vergil's Æneid; due attention will be paid to forms and syntax, but the chief aim in this course will be to enable the student to arrive at an appreciation of the poem. A thorough study of the dactylic hexameter will be made. M. Tu. Th. 2.

ADJUNCT PROFESSOR JAMES.

1a. PROSE COMPOSITION (1)—Bennett's Latin Writer completed, with additional exercises prepared by the instructor—Designed to accompany course A or course 1; *with the former it is required; with the latter it may be omitted, provided the student can satisfy the professor that he has passed on a course which is its equivalent.* W. 1 and 2.

ADJUNCT PROFESSOR JAMES.

\*The number to the left of the description of a course is the number of the course; the number to the right is the number of hours per week that the course is given. In general, two hours of laboratory work are considered as the equivalent of one hour of recitation. Thus a course that has two hours per week of recitation work and two hours of laboratory work is a three-hour course. Unless the contrary is stated in the description of a course, all courses run throughout the year. No professor is required to teach an elective course unless it is applied for by at least five students.



2. CICERO AND LIVY (3)—Cicero's *de Amicitia* and *de Senectute*; Livy, *Burton's Selections*; sight reading; Roman private life. *Prerequisite: Courses 1a and either A or 1.* M. W. F. 3.

PROFESSOR FUTRALL.

2a. PROSE COMPOSITION (1)—Nutting's *Supplementary Latin Composition*. *Prerequisite: Course 1a.* Th. 3.

PROFESSOR FUTRALL.

3. ROMAN PUBLIC AND PRIVATE LIFE (2)—Selections from Cicero, Pliny, Juvenal, and Martial. *Prerequisite: Course 2.*

PROFESSOR FUTRALL.

3a. PROSE COMPOSITION (1)—The translation of connected passages of idiomatic English into idiomatic Latin. *Prerequisite: Courses 2 and 2a.* W. 4.

PROFESSOR FUTRALL.

4. HORACE AND TACITUS (3)—Horace, *Odes* and *Epodes*; Tacitus, *Annals*; parallel and sight reading; the metres of Horace. *Prerequisite: Courses 2 and 2a.* Tu. Th. 4; W. 2.

PROFESSOR FUTRALL.

5. ROMAN POETS (3)—Readings will be taken from Plautus, Terence, Catullus, Horace, Juvenal, and others, and the attention of the student will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities. The metres of Plautus and Terence will be carefully studied. Course 5 may be taken twice and counted towards a degree, as the readings will be changed in successive years. *Prerequisite: Courses 2a and 3 or 4.*

PROFESSOR FUTRALL.

*Text-books.* Bennett's and Gildersleeve's *Grammars*; Wilkins' *Primer of Roman Literature*; Crutwell's *Roman Literature*. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. *Lexicons:* Harper, Lewis, White.

## GREEK.

Courses 1 and 2 are designed to give students who do not present entrance credits in Greek an opportunity to begin the study of the language. Those having an entrance credit of three units will be admitted to course 3.

1. ELEMENTARY COURSE (4)—White's *Beginner's Greek Book*, with selections from Xenophon's *Anabasis*. A thorough mastery of the forms and constructions given in this book is required. M. T. W. Th. 4.

ADJUNCT PROFESSOR JAMES.

2. XENOPHON AND LYSIAS (4)—This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar. *Prerequisite: Course 1.* M. W. Th. F. 6.

ADJUNCT PROFESSOR JAMES.

3. HOMER AND PLATO (3)—Systematic study of the grammar; prose composition; Greek literature; sight reading. *Prerequisite: Course 2.* M. 4, Th. F. 2. PROFESSOR FUTRALL.

4. GREEK HISTORIANS (2)—Selections from Herodotus and Thucydides. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

5. ADVANCED PROSE COMPOSITION (1)—Weekly written exercises. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

6. THE ATTIC DRAMA (3)—Readings from Æschylus, Euripides, Sophocles, and Aristophanes. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

*Text-books.* Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Collar and Daniell's Prose Composition; Higley's Exercises in Greek Composition. Any approved edition of the Greek authors may be used, except when certain editions are prescribed. Liddell and Scott's Lexicons are recommended.

## BIOLOGY.

F. W. PICKEL, *Professor.*

The courses of this department have been arranged to meet the needs of three classes of students; those who desire to become acquainted with the fundamental principles of plant and animal life; those who contemplate the study of medicine; and those wishing to go more thoroughly into the study of biological science to obtain the technical training necessary for subsequent investigation or for teaching.

1. GENERAL BIOLOGY (3)—This course serves as an introduction into the whole field of biological science, and should be a part of the general education of every student. Types of plants and animals will be dissected and studied in the laboratory, and the essential truths of biology emphasized. One recitation and laboratory work, four hours per week throughout the year. Tu. Th. 6 and 7. F. 6. PROFESSOR PICKEL.

2. BOTANY (3)—In this course special attention is paid to the morphology, physiology, and ecology of plants, but due attention is given in the second term to the systematic classification of plants, and each student is required to collect and write a technical description of a certain number of plants. The geological history of plants and the origin of cultivated plants will be briefly considered. Field work, when practicable, will form an important feature of the course. Recitation and laboratory work six hours per week throughout the year. M. W. 6 and 7; F. 7.

PROFESSOR PICKEL.

3. ADVANCED BOTANY (3)—A lecture and laboratory course on the morphology, physiology, and the diseases and injuries of plants. One lecture and four hours' laboratory work per week throughout the year. *Prerequisite: Botany 2.* Tu. Th. 5 and 6; F. 4.

PROFESSOR PICKEL.

4. BACTERIOLOGY (4)—An introduction to the subject, and instruction in laboratory technique—the preparation of nutrient media, the characteristics of bacteria, the kind and effects, isolating and keeping pure cultures, microscopical preparations, the study of bacteria found in soil, in water, and in air; study of pathogenic forms and their relation to disease. One lecture and six hours' laboratory work per week throughout the year. *Prerequisite: Chemistry 1, Biology 1.* M. 1, Tu. W. F. 2 and 3.

PROFESSOR PICKEL.

5. GENERAL ZOÖLOGY (3)—A general course in invertebrate and vertebrate morphology. Attention will be given to the fundamental facts of zoölogical science and the laws of development, heredity, variation, correlation, etc. In connection with the laboratory work in the course, instruction will be given to such students as desire to learn methods of preparing bird skins and mammal skins for laboratory and museum specimens. Field work, when practicable, will form an important feature of the course. One recitation and four hours' laboratory work per week throughout the year. M. F. 3 and 4, W. 5.

PROFESSOR PICKEL.

6. COMPARATIVE ANATOMY OF VERTEBRATES (3)—Recitations and demonstrations dealing with the comparative anatomy of acrania, cyclostomes, sharks, fishes, amphibians, reptiles, birds and mammals. Laboratory work on selected types of the different



groups. One recitation and four hours' laboratory work per week throughout the year. *Prerequisite: Biology 1, or General Zoology 5.* M. 2, W. F. 1 and 2. PROFESSOR PICKEL.

7. ANIMAL HISTOLOGY AND EMBRYOLOGY (5)—This course is offered to students intending to study medicine, but is open to any student who has completed biology 1. It consists of instruction in histological and embryological methods of technique to acquaint the student with the principles of histology and embryology. Two lectures and six hours' laboratory work per week throughout the year. Tu. Th. 1, W. F. 2, 3, 4.

PROFESSOR PICKEL.

8. PHYSIOLOGY (4)—The physiology of foods, digestion, and nutrition; the blood circulation and respiratory mechanism; the excretion, especially analysis of urine; functions of brain and spinal cord; physiology of nerve and muscle. Two lectures and four hours' laboratory work a week throughout the year. *Prerequisite: Chemistry 1; Elementary Physiology.* M. and F. 2. Tu. Th. 2 and 3.

PROFESSOR PICKEL.

9. NATURE STUDY (1)—A special course in nature study, its aim, methods, etc., and systematic science teaching will be offered to students who expect to teach. One lecture per week throughout the year. *Prerequisite: Biology 1.*

PROFESSOR PICKEL.

## CHEMISTRY.

CHARLES G. CARROLL, *Professor.*

H. E. MORROW, *Associate Professor.*

1. ELEMENTARY CHEMISTRY (3)—Lectures and recitations three hours a week; laboratory exercises one afternoon a week. *Prerequisite: Elementary Physics.* PROFESSOR CARROLL.

ASSOCIATE PROFESSOR MORROW.

1a. ELEMENTARY CHEMISTRY (2)—Two hours per week in addition to the work of chemistry 1. *Required of students in the course in Agriculture; second term of the Freshman, and first term of the Sophomore year.*

ASSOCIATE PROFESSOR MORROW.

1b. DESCRIPTIVE CHEMISTRY (2)—Elementary chemistry treated descriptively and historically. Lectures and recitations two hours per week. *Primarily for B. A. students whose majors are not in science.*

Laboratory work may be done in connection with the course, credit for which will be in proportion to the amount of time devoted.

PROFESSOR CARROLL.

2. GENERAL INORGANIC CHEMISTRY (3)—Lectures and recitations three hours per week. Smith's General Inorganic Chemistry is the text-book used. M. 1, 3, 1, W. 1.

PROFESSOR CARROLL.

2a. LABORATORY EXERCISES TO ACCOMPANY CHEMISTRY 2 (1-2)—Smith's Laboratory Outline of General Chemistry is used as a basis.

PROFESSOR CARROLL.

3. ELEMENTARY ORGANIC CHEMISTRY (2)—Lectures and recitations twice a week. Remsen's Organic Chemistry is the text-book used. *Prerequisite: Chemistry 1.*

ASSOCIATE PROFESSOR MORROW.

3a. LABORATORY EXERCISES IN ORGANIC CHEMISTRY (1-2)—To accompany chemistry 3. ASSOCIATE PROFESSOR MORROW.

4. ADVANCED ORGANIC CHEMISTRY (3)—Lectures and recitations three hours per week. *Prerequisite: Chemistry 3.*

ASSOCIATE PROFESSOR MORROW.

4a. ORGANIC PREPARATIONS (1-2)—Exercises in organic chemistry, with the manuals of Gattermann, Levy, and Fischer as a basis. This course should be taken in connection with Chemistry 4.

ASSOCIATE PROFESSOR MORROW.

5. QUALITATIVE ANALYSIS (2-3)—One lecture or conference per week, with laboratory work, during either term or throughout the year. *Prerequisite: Chemistry 1.*

PROFESSOR CARROLL,

ASSOCIATE PROFESSOR MORROW.

6. QUANTITATIVE ANALYSIS (2-5)—One lecture or conference per week with laboratory work, for one term or during the year. The credit given will depend on the quality of the work and the number of determinations made. The course will be varied to suit the needs of individual students. *Prerequisite: Chemistry 5.*

PROFESSOR CARROLL.

7. QUANTITATIVE ANALYSIS (2-5)—Occasional lectures and conferences. More complicated gravimetric and volumetric processes of analysis. Credit determined as for Chemistry 6.

PROFESSOR CARROLL.

8. QUANTITATIVE ANALYSIS (2-5)—A continuation of course 6 or course 7. The work done will be varied to suit the needs of the student. Engineering students may perform exercises in technical gas analysis, the analysis of fuels, oils, etc. *Prerequisite:* At least  $1\frac{1}{2}$  hours of Chem. 5 and Chem. 6.

PROFESSOR CARROLL.

9. WATER ANALYSIS (2-3)—A course in the methods of sanitary and technical water analysis, primarily for engineering students. The discussion and interpretation of results of the various analyses will be illustrated in occasional lectures and conferences. *Prerequisite:* At least  $1\frac{1}{2}$  hours of Chemistry 5 and Chemistry 6.

PROFESSOR CARROLL.

10. ELECTRO-CHEMICAL ANALYSIS (2-5)—Quantitative analysis by electrolysis. Laboratory exercises with occasional lectures during the year or either term.

PROFESSOR CARROLL.

11. PHYSICAL CHEMISTRY (3)—Lectures three hours per week for one term. *Prerequisite:* Chemistry 1 and a certain amount of Chemistry 5 and 6; Mathematics 1a; Physics 1, 1a.

PROFESSOR CARROLL.

11a. LABORATORY EXERCISES IN PHYSICAL CHEMISTRY (2-3)—To accompany Chemistry 11.

PROFESSOR CARROLL.

12. TEACHER'S COURSE (3)—Two hours of lectures and conferences and three hours of practice per week. Designed for prospective high school teachers. *Prerequisite:* Chemistry 1, 2, 3, 5, 6, 11.

PROFESSOR CARROLL.

13. ELECTRO-CHEMISTRY (3)—Elementary, theoretical, and applied electro-chemistry. *Prerequisite:* Physics 2, Chemistry 1. Lectures and laboratory exercises during one term.

PROFESSOR CARROLL.

14. HISTORY OF CHEMISTRY (2)—Lectures, assigned readings and reports, during one term.

PROFESSOR CARROLL.

15. CHEMICAL COLLOQUIUM (2)—Readings and discussions two hours per week, during the year. Articles in German and French chemical journals are the basis of the work.

PROFESSOR CARROLL.

16. RESEARCH WORK—Problems in research will be given to graduate students and to others competent to undertake such work. A reading knowledge of German and French is indispensable.

PROFESSOR CARROLL.



17. JOURNAL MEETING (1)—The instructors and advanced students of the department meet once a week for discussion of articles in the current chemical journals.

### ECONOMICS AND SOCIOLOGY.

C. H. BROUGH, *Professor.*

NEIL CAROTHERS, *Associate Professor.*

The courses offered in this department are designed to give instruction on the fundamentals of economic theory and the problems of current economic, social, and public interest, and to prepare students for the duties of citizenship and participation in the professions of law, politics, journalism, and financing—in short, for business and professional careers.

Economics 1 is a prerequisite for all courses except 2, 7, and 9. Courses 6, 7, and 8 are open to Juniors and Seniors only. Credit may be granted for one term's work in Courses 1, 2, 3, 5, 7, 8, and 10.

1. PRINCIPALES OF ECONOMICS (*both terms*) (3)—*Texts.* Bullock's Introduction to the Study of Economics; Seligman's Principles of Economics, with assigned reading in special topics, such as trusts, tariff, labor, taxation, etc. Prerequisite to all economic courses except 2, 7, and 9. Section 1, M. Tu. Th. 1; section 2, M. W. F. 2; section 3, M. W. F. 3; section 4, M. W. F. 4; section 5, M. 3. T. 1, Th. 1.

PROFESSOR BROUGH and

ASSOCIATE PROFESSOR CAROTHERS.

2. BUSINESS LAW (*both terms*) (3)—A study is made in this course of the laws of Arkansas, the law of bills, cheques and notes, contracts, agency, and the elements of business law. The regular text-book work will be supplemented by lectures by President Tillman of the University, formerly Circuit Judge, on topics connected with the course, and by moot-court work in the law club which meets Saturday afternoon. Membership in this law club, however, is not compulsory. *Texts:* Kirby's Digest of Arkansas Laws; Huffcut's Elements of Business Law; Harriman on Contracts. T. 6, W. 1, F. 1,

PROFESSOR BROUGH.

3. (a) **TRANSPORTATION AND ITS PROBLEMS** (*first term*) (3)—The railway systems of the United States and foreign countries, railroad geography, rate making, government versus private ownership and control, and the enlargement of the powers of the Interstate Commerce Commission are considered. *Texts*: Johnson's American Railway Transportation; Johnson's Ocean and Inland Waterway Transportation, supplemented by lectures, assigned readings, Reports of the Interstate Commerce Commission, and Newcomb's Facts About Railroads. M. 5, T. 2, Th. 2. ASSOCIATE PROFESSOR CAROTHERS.

(b) **MONEY AND BANKING** (*second term*) (3)—The theory of money, banking and credit is considered, and current financial problems and practical banking is stressed. Special stress is given a consideration of the Independent Treasury system and the pending proposal of a Central Bank for the United States. *Texts*: White's Money and Banking (revised edition); Fiske's The Modern Bank. ASSOCIATE PROFESSOR CAROTHERS.

4. (a) **INSURANCE** (*first term*) (3)—A thorough study of life, fire, accident, liability, industrial, and marine insurance, of the work of the insurance agent, and the policies of insurance companies. *Texts*: Alexander's The Life Insurance Company; Insurance (Special Volume of the Annals of the American Academy). In this course opportunity is given to contest for two valuable prizes offered by the A. B. Banks Company, of For-  
dyce, and Mr. W. B. Collins, of Fort Smith, aggregating \$55. M. 6, W. 6, F. 6. ASSOCIATE PROFESSOR CAROTHERS.

(b) **INSURANCE AND TRUST FINANCE** (*second term*) (3)—A continuation of the study of insurance and an intensive study of the forms of corporate organization. *Texts*: Annals of the American Academy (special volume); Mead's Trust Finance. M. 6, W. 6, F. 6. ASSOCIATE PROFESSOR CAROTHERS.

5. (a) **FINANCIAL HISTORY OF THE UNITED STATES AND PUBLIC FINANCE** (*first term*) (3)—A thorough investigation is made of the financial history of the United States, and an intensive study is made of the problems of taxation, municipal ownership, and financial administration. *Texts*: Dewey's Financial History of the United States; Seligman's Essays on Taxation; supplementary readings in Whinery's Municipal Works, Porter's Dangers of Municipal Ownership, the Report of the Civic Federation, and Fairlie's Municipal Administration. M. 7, T. 4, Th. 4. PROFESSOR BROUGH.

6. (a) SOCIALISM AND SOCIAL REFORM (*first term*) (2)—A study of socialism and social reform, involving a consideration of such practical questions as the government ownership and control of public utilities, the single tax, and coöperation. *Text*: Ely's Socialism and Social Reform. Collateral reading in George's Progress and Poverty; Gilman's Socialism and the American Spirit, and current periodicals. Frequent lectures on different phases of Socialism. T. 6, Th. 6.

ASSOCIATE PROFESSOR CAROTHERS.

(b) THE LABOR QUESTION (*second term*) (2)—A study of the purposes and fundamental principles of trades unions, strikes, lockouts, boycotts, blacklists, arbitration, conciliation, and injunction, both from the standpoint of the laborer and capitalist. *Texts*: Mitchell's Organized Labor; Bolen's Getting a Living. T. 6, Th. 6.

ASSOCIATE PROFESSOR CAROTHERS.

7. (a) PRINCIPLES OF SOCIOLOGY (*first term*) (2)—This course considers the elements of social growth and progress, describes social institutions, and suggests practical social reforms. *Text*: Wright's Practical Sociology. Supplementary readings on population, immigration, liquor, divorce, prison administration, and slum problems. T. 7, Th. 7.

ASSOCIATE PROFESSOR CAROTHERS.

(b) MODERN METHODS OF CHARITY (*second term*) (2)—A study of the problems of poverty, its causes, results and remedies, together with questions of poor relief and organized charity. *Text*: Devine's Methods of Poor Relief. T. 7, Th. 7.

ASSOCIATE PROFESSOR CAROTHERS.

8. ECONOMIC PROBLEMS OF THE PRESENT (*both terms*) (3)—Lectures, debates, and discussions of the tariff, trust, labor, ship subsidy, railroad, government ownership, municipal monopoly, socialism, income tax, inheritance tax, injunction, land reform, and prohibition problems. One period each week is devoted to lectures by the Professor in charge on these current economic questions; one, to debates by members of the class; one, to discussions and reports on these questions in class. No regular texts are used, but Congressional Records, books, and current periodicals are freely consulted. M. 6, T. 5, Th. 3.

PROFESSOR BROUGH.

9. ENGINEERING LAW (*both terms*) (3)—Elective for Juniors and Seniors in engineering. Lectures and recitations three times



a week. *Texts:* Kirby's Digest of Arkansas Laws; Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence. M. 4, Th. 2, F. 4.

PROFESSOR BROUGH.

10. ECONOMIC LAW (*both terms*) (3)—A study of labor and corporation law and the law of injunctions, with special reference to current economic problems. *Texts:* Stimson's Handbook of Labor Law, Clark on Corporations, lecture notes and references to Beach and High on Injunctions. T. 3, W. 3, F. 3.

PROFESSOR BROUGH.

(b) ECONOMIC HISTORY OF THE UNITED STATES (*second term*) (3)—A comprehensive study is made of the evolution of our industrial history, emphasis being placed on the present-day development of the United States along all lines. *Texts:* The World's Almanac (current issue); Bogart's Economic History of the United States, supplemented by readings in the files of the current periodicals. M. 7, T. 4, Th. 4.

PROFESSOR BROUGH.

## ENGLISH.

EDGAR F. SHANNON, *Professor.*

GARLAND GREEVER, *Associate Professor.*

MRS. E. M. BLAKE, *Instructor.*

MISS JOBELLE HOLCOMBE, *Instructor.*

MISS PEARL H. ETHERIDGE, *Instructor.*

1. ELEMENTARY COMPOSITION AND LITERARY HISTORY (3)—The class meets three times a week, twice in large sections for the study of selected masterpieces and for instruction in the history of English literature, and once in small sections for intensive work in composition and rhetoric. The large sections meet at various hours on Tuesdays and Thursdays; the small sections are apportioned through the remaining days of the week. Each student must have the same hour for recitation on all three days. A booklet descriptive of the course in detail must be secured through the instructors by the payment of its actual cost, ten cents. *Required of all Freshmen.*

ASSOCIATE PROFESSOR GREEVER,  
MRS. BLAKE,  
MISS ETHERIDGE.

1a. LITERATURE AND COMPOSITION FOR TECHNICAL STUDENTS (3)—This course is a modification of English 2, designed to meet the special needs of students in engineering and agriculture. The class will devote two hours a week to study and practice in composition, mainly in scientific description and exposition. The course in literature is planned to give the student a firmer grasp on the development of English literature together with intelligent appreciation of selected masterpieces. A syllabus of required readings must be secured from the instructor at the beginning of the course, for which ten cents, the actual cost, will be charged. Text-book will be announced to applicants. *Prerequisite:* English 1, T. W. Th. 4. MISS ETHERIDGE.

2. ADVANCED COMPOSITION; ELEMENTARY ANGLO-SAXON; OUTLINE HISTORY OF THE CHIEF FORMS OF LITERATURE (3)—The course in composition comprises a thorough study of theory, together with constant effort to apply in practice the principles learned. Themes will be written weekly, criticised by the instructor, and corrected or re-written. The paragraph will be studied, both as a whole and in connected discourse. The themes assigned will be in narration, description, and exposition, and will progress from single paragraphs to long compositions. Text-books will be announced to applicants.

Elementary Anglo-Saxon is taught with a view to interesting the student in the history of the English language, and developing greater accuracy in his use of words. *Text-book:* Smith's Old English Grammar.

The purpose of the course in the Forms of Literature is two-fold: To give the student a firmer grasp on the development of English literature as taught in English 1, and to cultivate an intelligent appreciation of the masterpieces representing the chief forms of prose and poetry. Students must secure at the beginning of the course a syllabus of required readings, for which five cents, the actual cost, will be charged.

For the study of literature, the class meets once a week, T. 3. For the study of composition and Anglo-Saxon, the class is divided into seven sections, meeting as follows: One section, M. Th. 2; two sections, M. Th. 4; three sections, W. Fr. 3; one section, W. Fr. 6. *Required of all Sophomores in the B. A. course; open to others who have completed English 1.*

PROFESSOR SHANNON,  
ASSOCIATE PROFESSOR GREEVER,  
MISS HOLCOMBE.

4. ADVANCED COMPOSITION (2)—The purpose of this course is to teach the advanced students the principles of exposition and argumentation, and to develop reasoning power as well as the ability to write clear and vigorous prose. The structure of the short-story will be taken up at the beginning of the course; typical specimens will be studied, and each student will construct a plot and write a story. For the remainder of the first term the course will be devoted to exposition, which will be studied theoretically and practically. Much time will be given to the analysis of specimens of exposition. Frequent outlines and complete themes will be required. The second term will be devoted to argumentation, which will be studied in the same manner. *Text-books:* Gardiner's *Forms of Prose Literature*; *The Atlantic Monthly* from October to March; and Foster's *Argumentation and Debating*. *Required of Juniors whose major subject is English; open to Juniors and Seniors who have completed English 2.* W. Fr. 2; M. Th. 7.

PROFESSOR SHANNON,  
ASSOCIATE PROFESSOR GREEVER.

6. SIXTEENTH CENTURY LITERATURE (2)—This course begins with the accession of Henry VIII, and ends with the predecessors of Shakespeare in the drama. Preliminary lectures will seek to explain the dearth of literature in the fifteenth century, and trace the incoming of the Renaissance into England. The principal writers in prose and verse of the sixteenth century will then be studied in chronological order. In the first term special attention will be given to the development of English prose style, and the origin and florescence of the Elizabethan lyric. The second term will be devoted to the study of the drama before Shakespeare. Its development will be traced from mediæval church liturgy through the miracle and the morality to Elizabethan tragedy and comedy. A list of assigned readings must be secured at the beginning of the course. *Text-book for the second term:* Manly's *Specimens of the Pre-Shakespearean Drama*, 2 vols. *Open to Juniors and Seniors who have completed English 2.* M. Fr. 6.

PROFESSOR SHANNON.

7. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY (2)—The work of the first term deals with the prose writers of the century, and with the lyric writers of the reigns of James and Charles I. Beginning with a study of the prose of the Authorized Version of the Bible the course includes the prose of



Johnson, Milton, Taylor, Clarendon, Browne, Hobbes, and Walton. The study of the lyric writers is confined to Professor Schelling's text-book, *The Seventeenth Century Lyrics*.

The work of the second term is an intensive study of the life and poetry of Milton.

The course may be elected for either term or both. *Open to Juniors and Seniors who have credit for English 2.* W. F. 1.

MISS HOLCOMBE.

3. AMERICAN LITERATURE (2)—Colonial literature will be studied in outline. Intensive study will be given to the leading poets, especially to Bryant, Emerson, Poe, Longfellow, Whittier, Holmes, Lowell, Lanier, followed by a consideration of minor poets of the South. *Open to Sophomores who have credit for English 1.* M. Th. 4.

MISS HOLCOMBE.

8. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY\* (2)—This course includes that part of English literature from the death of Dryden to the publication of the Lyrical Ballads (1700-1798). It therefore traces the development of English literature through the period of classicism up to the triumph of romanticism. This is a library course in which the student is assigned reading in the works of the principal writers of this period, and is required to submit reports upon topics suggested by his reading. After the student has studied briefly the biography of the author, made a classification of his works, and done the reading assigned to him, the instructor discusses in lectures the author's life and work and assigns to him his true place in literature. By this means the critical faculty of the student is cultivated and the discussion by the instructor furnishes to the student a standard by which to measure his own judgment and correct it, if need be. The authors read and discussed are Swift, Addison, Steele, Pope, Johnson, Goldsmith, Defoe, Richardson, Fielding, Smollet, Sterne, Thomson, Young, Collins, and Gray. *Open to Juniors and Seniors who have credit for English 2.* T. Th. 7.

ASSOCIATE PROFESSOR GREEVER.

\*Not given in 1910-11.

9a. NINETEENTH CENTURY POETRY (3)—The first term will be given to the study of Wordsworth, Coleridge, Shelley, Keats, and a few of the minor poets. The second term will be given to a study of Tennyson and Browning. *Text-books:* Page's *British Poets of the Nineteenth Century*, for the minor poets;

the Clarendon Press edition for each of the others. *Open to Juniors and Seniors who have completed English 2.* M. W. F. 6.

MRS. BLAKE.

9b. NINETEENTH CENTURY PROSE (2)—The first term will be given to the novel; the second to the essay. In the novel the instructor will lecture on the beginnings and development of prose fiction, and will lead in a thorough discussion of the lives and characteristics of Jane Austen, Scott, Dickens, Thackeray, and George Eliot. Each student will be made responsible for an exhaustive report on one minor novelist. During the term the student must read not fewer than eight novels—one each from the five major novelists, one from the minor novelist assigned him, and two optional. In the essay the emphasis will be laid on a few leading writers—Lamb, Macaulay, Carlyle, Newman, and Arnold; but each student will be required to report in full on the life, style, and significance of one additional essayist. The course may be taken for either term or both. *Open to Juniors and Seniors who have completed English 2.* T. Th. 6.

ASSOCIATE PROFESSOR GREEVER.

10. CHAUCER AND MIDDLE ENGLISH (2)—The primary purpose of this course is to cultivate in the student an appreciation of the genius of Chaucer; the secondary purpose is to teach Middle English, and make clear its place in the history of the language. The grammar and prosody of Chaucer will be studied so far as is necessary to render easy the correct reading of his verse. The main body of his works will then be taken up in the following order: *Minor Poems, House of Fame, The Prologue*, and most of the *Canterbury Tales*, parts of *Troilus and Criseyde*. *Text-books:* The Student's Chaucer (Clarendon Press); Emerson's History of the English Language. *Required of Juniors whose major subject is English; open to Juniors who have completed English 2.* W. Fr. 4.

PROFESSOR SHANNON.

11. ANGLO-SAXON (2)—This course is offered primarily for students who intend to specialize in philology or literature, but will prove of value to all students who desire accurate knowledge of the English language. The phonology and grammar of Anglo-Saxon will be mastered as far as is required by the text-books, and selections representing various periods of Anglo-Saxon prose, together with some verse, will be read. The course will include also the history of the English language. *Text-books:* Bright's

Anglo-Saxon Reader; Lounsbury's History of the English Language; Greenough and Kittredge's Words and Their Ways in English Speech. *Required of Seniors whose major subject is English; open to Seniors who have completed English 10.* M. Th. 1.

PROFESSOR SHANNON.

12. SHAKESPEARE AND THE ELIZABETHAN DRAMA (3)—The aim of this course is to present Shakespeare with reference to his place in the history of the drama and his connection with his age. The instructor will lecture in the beginning on the principles and technique of the drama, drawing his illustrations principally from *Romeo and Juliet*, *Hamlet*, *Macbeth*, *Lear*, and *Othello*; these plays the student should read or review before reporting to class. The order of the course will then be as follows: The development of the mediæval drama, each student submitting an analysis of the language and dramatic qualities of a miracle or morality; the characteristics and contributions of the classical drama; the social and historical forces of the Elizabethan Age; the work of Shakespeare's immediate predecessors, especially Lyle, Marlowe, Greene, and Kyd; the comedies of Shakespeare as illustrating his temperamental changes and growth in technique; the histories; the tragedies; and the general significance of Jonson, Webster, and Beaumont and Fletcher. Few papers will be required, but these will involve careful research. *Text-book:* The Oxford Shakespeare (Clarendon Press), or any good one-volume edition. *Open to Juniors and Seniors who have completed English 2.* M. Th. 3; F. 1.

ASSOCIATE PROFESSOR GREEVER.

NOTE.—Students who select English as their major subject are required to take, besides English 1 and 2, the following courses: English 4, 10, and 2 or 3 hours from English 6, 7, 8, 9a, and 9b, in the Junior year; English 11, and 4 or 5 hours from English 6, 7, 8, 9a, 9b, and 12, in the Senior year.

## GEOLOGY AND MINING.

A. H. PURDUE, *Professor of Geology and Head of the Department.*

A. A. STEEL, *Professor of Mining.*

### Geology.

The several courses in geology are intended to supply the need of:



1. Students who wish to ground themselves in the elements of the science with the view of making it a life work. Of such, courses 2, 3, 5, 7, and 8 are required.

2. Students taking the course in mining engineering, of whom courses 2, 3, 5, 7, and 9 are required.

3. Students in agriculture, to whom course 1 or 2 is recommended.

4. Students desiring a general educational knowledge of the subject to whom course 2 is recommended.

5. Students who are preparing themselves to teach physical geography and physiography, to whom course 1 or 6 is recommended.

### Mining Engineering.

The four years' course in mining engineering outlined on page 81 is planned to give that instruction in the underlying principles of geology and mining engineering, which can be acquired only with great difficulty outside of the colleges. Effort will be made to train the student in original thinking and the ready adaptation of means to the unusual conditions so common in mining.

The practical work of mining, metallurgy, and ore dressing can be learned so much more rapidly and effectively by actual work that no laboratory instruction in these lines is offered at the University. The students are expected to spend parts of at least two summer vacations at ordinary day's work in some mine, mill, or smelter, where they will be expected to ask questions of the workmen and keep notes of their observations, and compute the costs of some detailed operations. This plan, besides preparing the students for the study of the principles involved in their work, also gives them a useful knowledge of the workmen with whom they must deal, and tends to break down the prejudices on both sides.

This course in mining is designed to make specialists in mining geology and mining operating, rather than all-round technical men. Hence a large part of the student's time is spent upon work in the department of geology and mining, but the necessary fundamental work in mathematics and applied science is not slighted, and enough work is required in the other technical departments to enable the graduates to solve the simpler problems of civil, mechanical, and electrical engineering, and me-

tallurgy, and to judge of the qualifications of specialists in these lines, when in charge of large properties. There is also enough laboratory and field work required to fit the young mining engineer to do all the analytical work, assaying, surveying, drafting, and designing needed at the average mine, while he is acquiring the experience and prestige necessary for more responsible and executive positions.

Some of the work in ore dressing, assaying, and advanced mineralogy can be omitted by students who have definitely decided to engage in coal mining. Additional mechanical and electrical engineering work is recommended for such students.

While the course is not especially exacting, it is severe and should be undertaken only by students well prepared mentally and in good health. To accomplish all the work well, the average student will have to devote seven or eight hours per day, six days per week, to his college work during the academic year.

### Geology.

1. **PHYSIOGRAPHY (3)**—An elementary course suited to Freshmen, and adapted to the needs of teachers of physical geography in secondary schools. *Text:* Physiography, by R. D. Salisbury M. T. W. 6 and 7. PROFESSOR PURDUE.

2. **GENERAL GEOLOGY (3)**—The geological work of the atmosphere and water (including streams, lakes, the ocean, and underground water); glaciers and glaciation; organic agencies; igneous and sedimentary rocks; structural geology; diastrophism; historic geology. Recitation three times a week. *Text:* Branner's Syllabus of General Geology, supplemented by Chamberlin and Salisbury's Geology. *Prerequisite:* Chemistry 1. M. T. W. 2. PROFESSOR PURDUE.

3. **PRACTICAL GEOLOGY (3)**—Field and laboratory work nine hours a week throughout the year, with the construction of geologic maps and sections, and topographic maps. PROFESSOR PURDUE.

5. **CRYSTALLOGRAPHY AND MINERALOGY (3)**—(a) Lectures and recitations three hours a week during the first term on the elements of geometric crystallography.

(b) Laboratory work (three-hour periods) three times a week following course (a) and extending through the year. Determination of minerals before the blowpipe, and in the wet way.

*Text:* Determinative Mineralogy, Brush. *Required of students in geology, mining, and civil engineering. Prerequisite:* Chemistry 1. Th. F. 5, 6, 7, 8. PROFESSOR STEEL.

7. ECONOMIC GEOLOGY (3)—Lectures, with collateral reading, on the formation, modes of occurrence, uses and geographic distribution of economic geological products. Second term. *Required of students in geology and mining. Prerequisites:* Chemistry 1, Geology 2. PROFESSOR PURDUE.

8. ROCKS AND METAMORPHISM (1)—Recitations and laboratory work two periods per week, on the classification of rocks and their formation, destruction and alteration. Second term. *Required of students in geology and in mining engineering. Prerequisites:* Chemistry 1, Geology 2 and 5.

PROFESSOR STEEL.

9. ADVANCED MINERALOGY (1-2)—Recitations and laboratory work one three-hour period per week, on the variations, associations, and alterations of minerals. First term. *Required of students in mining engineering. Prerequisite:* Geology 8.

PROFESSOR STEEL.

Students who take major in geology are required, in their senior year, to prepare a report including maps, sections, and other necessary illustrations of some area of the geology of which they have worked out.

## Mining.

1. INTRODUCTORY COURSE (2)—Descriptive treatment of a few of the more common methods of mining now practiced, preliminary to the study of actual mining during the summer vacation. A general basis for later detailed and critical courses. Lectures or recitations twice a week during second term. *Prerequisites:* Chemistry 1, Physics, 1. PROFESSOR STEEL.

2. DETAILS OF MINING OPERATIONS (2)—Methods, tools, rate of progress and comparative cost of; excavation of earth; drilling and blasting of rock; driving and timbering of tunnels in hard and soft ground; boring for various purposes, and shaft sinking and timbering. Also a discussion of the nature and use of common explosives, and the special methods of mining. Outside reading with lectures or recitations twice a week throughout the year. *Prerequisites:* Mining 1. PROFESSOR STEEL.



3. ADVANCED MINING (3)—(a) A critical study of the different methods of exploration, development and working of mineral deposits. Practice in selecting the methods best suited to certain assigned conditions, and combining the good features of various established systems of mining. Lectures or recitations three times a week the first ten weeks of the year.

(b) MINING ADMINISTRATION—Organization of staff for large and small mines; purchase of supplies and disposal of product; management of labor; elements of mining law; mine accounts and cost sheets. Three times per week for seventeen weeks following course (3a).

(c) MINE EXAMINATIONS—Sampling of ore bodies; estimation of average value, and available and probable tonnage of ore in the mine; character and form of maps and expert reports. Outside drawing and lectures or recitations three times a week last seven weeks of the term.

This course is open only to students whose major is taken in the department of Geology and Mining. PROFESSOR STEEL.

4. ENGINEERING PROBLEMS OF MINES (3)—(a) Applications of civil engineering to mining. Surface and underground handling, transportation and storage of minerals; mine buildings, trestles, ore bins, etc.; mineral railroads, common roads; water supply; drainage of mines; methods of ventilation; accidents to men; underground surveying. Lectures and conferences three times a week, first term, with outside reading, designing and detailed drawing. *Prerequisites: C. E. 2 and 3; M. E. 4 and 9.*

PROFESSOR STEEL.

(b) MINE PLANT—Description and critical discussion of the mechanical equipment of mines; hoisting engines, ropes, skips, cages, and head frames; various types of pumping machinery; air compressors and the transmission of power by compressed air; machine drills; mine cars and tracks; underground haulage plant; practice in the selection of mining machinery from trade catalogues. Lectures and conference three times a week, second term. Outside reading and detailed drawing. *Additional prerequisite: M. E. 5. Either term may be elected separately.*

PROFESSOR STEEL.

8. ORE DRESSING—General principles and theory of ore dressing; hand dressing; cleansing; crushing; sizing and classifying; jigging sized and unsized products; table concentrating;

stamp milling of gold and silver ores; descriptions of typical ore dressing works; practice in outlining schemes of ore dressing under assigned conditions. *Text-book:* Richard's Ore Dressing. Recitations and conference twice a week, two terms. *Prerequisites:* *Geology 5, Mechanical Engineering 4 and 5.*

PROFESSOR STEEL.

### Metallurgy.

1. GENERAL METALLURGY ( $1\frac{1}{2}$  or 3)—Elementary study of fuels and furnaces and the metallurgy of iron and steel, copper, lead, silver, and gold. Lectures or recitations three times a week first term. M. W. F. 4. If desired by a sufficient number of students the course will be continued through the second term, taking up the metallurgy of the minor metals and the more important wet chemical methods of extracting metals from their ores. *Prerequisite:* *Chemistry 1.*

PROFESSOR STEEL.

2. ASSAYING (1 or  $1\frac{1}{2}$ )—Fire assaying of various classes of ores and furnace products for gold, silver, and lead. Laboratory work four or six hours a week on Saturdays, with occasional lectures and recitations, second term. *Text-book:* Fulton's Manual of Fire Assaying. *Prerequisite:* *Chemistry 1.*

PROFESSOR STEEL.

### GERMAN.

M. C. G. LENTZ, *Professor.*

ELVA L. SLY, *Instructor.*

1. ELEMENTARY COURSE (3)—Bierwirth's Beginners' German; translation from German into English; Wigo, by Jacobsen, and Der Tschokoi, by Kraner, with prose composition based on these texts; Immensee, by Storm; Germelshausen, by Gerstaecker. M. T. Th. 2; M. W. F. 3; M. W. F. 4; M. W. F. 6; T. Th. F. 7.

2. MODERN GERMAN PROSE (3)—Review of grammatical principles with especial reference to syntax; reading of works by modern authors, such as Die Nonna, by Baumbach; Incognito, by Groller; Anfang und Ende, by Heyse; Der Bibliothekar, by Moser; German composition based on the text of Heyse's L'Arrabbiata. Practice in German conversation. M. T. Th. 1; M. W. F. 2.

2a. INTERMEDIATE GERMAN COMPOSITION AND CONVERSATION (2)—Wesselhoeft's German Exercises, Bronson's Colloquial German, Pope's German Composition. T. Th. 1.

3a. LESSING, GOETHE, AND SCHILLER (3)—Lessing's *Minna von Barnhelm*, Goethe's *Tasso*, Schiller's *Maria Stuart*. German Essays on works read. Rolleston's *Lessing*, Sime's *Goethe*, and Nevison's *Schiller*. (For assigned reading, see Note.) M. W. F. 4.

3b. ADVANCED GERMAN COMPOSITION AND CONVERSATION (2)—Poll's *German Prose Composition*, Groller's *Incognito*, with composition based on the text. Practice in conversation and original composition. This course is conducted partly in German. T. Th. 3.

4a. HISTORY OF GERMAN LITERATURE WITH SPECIAL STUDY OF THE CLASSIC PERIODS OF THE TWELFTH AND EIGHTEENTH CENTURIES (3)—Keller's *Bilder aus der deutschen Litteratur*, Obermann's *Deutscher Minnesang*, Wenkebach's *Die Meisterwerke des Mittelalters*, and other parallel reading. English essays on works read. M. W. F. 3.

4b. MIDDLE HIGH GERMAN (2)—Wright's *Middle High German Primer*, Paul's *Middle High German Grammar*. *Reading*: Weinhold's *Mittelhochdeutsches Lesebuch*, Bartsch's *Walther von der Vogelweide*. T. Th. 4. *Prerequisite*: *German 4a*.

4c. SCIENTIFIC GERMAN (2)—Brandt and Day's *German Scientific Reading*, Helmholtz's *Populaere Vortraege*, Lassar-Cohn's *Die Chemie im taeglichen Leben*. Outside reading of available German scientific periodicals. T. Th. 2. *Prerequisite*: *Two years of German*.

NOTE—For the purpose of acquiring a facility in sight reading, and cultivating a taste for modern German literature, each student registered in German 3a, 3b, 4a, 4b, and 4c is required to read, during the college year, not less than five volumes of standard German fiction. A list of novels suitable for such reading can be obtained from the head of the department.

## HISTORY AND POLITICAL SCIENCE.

J. H. REYNOLDS, *Professor*.

D. Y. THOMAS, *Associate Professor*.

The courses in this department are designed to afford general culture, and in addition are essential to those who are looking to law, journalism, politics, the ministry, or any other public callings. Course 2 is foundation work and should be taken in the Freshman year. Other courses are not open to Freshmen. The completion of the whole of courses designated as "unit courses" is necessary to secure credit; the completion of a half year's work in other courses entitles one to credit.



2. (a) *MEDIAEVAL HISTORY (first term)* (3)—This course is designed to give the student a knowledge of the essential contributions of the ancient world to history, of the reorganization of German society upon the basis of Græco-Roman civilization, and the rise of the modern states.

(b) *MODERN HISTORY (second term)* (3)—Beginning where course (a) leaves off, the class will study the great world movements of modern times, such as the reformation, religious wars, absolutism, the contest for supremacy on the high seas, the French Revolution, and the democratic movements of the Nineteenth Century. English history will also be emphasized, about one period a week being devoted to it. All students seeking a liberal education should take this course. *Text-books:* Robinson's History of Western Europe and his Readings in European History; Cheyney's Short History of England; Richardson's Syllabus. For Freshmen. M. Th. 1; M. F. 2; M. Th. 4; M. F. 6. All sections meet Wednesday, the fifth period. Unit course.

PROFESSOR REYNOLDS.

ASSOCIATE PROFESSOR THOMAS.

3. *THE UNITED STATES SINCE 1783 (throughout the year)* (3)—After a brief study of the Confederation and of the formation of the Constitution, the subsequent history of the United States will be treated with special reference to political and constitutional development. Special attention will be given to the growth of political parties, the gradual sectional division of the country over slavery and state's rights, and the results of the Civil War and Reconstruction. Much library work will be required. M. W. F. 4. Unit course.

ASSOCIATE PROFESSOR THOMAS.

4. (a) *AMERICAN STATE GOVERNMENT (first term)* (2)—A study of the place of the state in our federal system, of the constitutional law of the states; of the structure and workings of American state governments as they exist today, and of some of the practical problems now before the states, such as the initiative and referendum, control of corporations, legislative reference, proportional representation.

(b) *POLITICAL PARTIES (second term)* (2)—Organization and workings of political parties. The caucus, the convention, the boss, the primary; methods of state control. Largely a library and lecture course. M. F. 2.

PROFESSOR REYNOLDS.

5a. HISTORY OF ENGLAND (*throughout the year*) (3)—A general culture course covering the whole of English History, treating alike the political, the literary, the religious, and the economic activities of the people. The origin and growth of the more important institutions, such as the kingship, parliament, cabinet, courts, and church; the reformation, the literature, the economic changes; the struggle for constitutional government and the colonial system will all receive attention. Primarily for Sophomores. Unit course.

PROFESSOR REYNOLDS.

5. (a) ENGLAND UNDER THE TUDORS AND THE STUARTS (*first term*) (3)—A study of the political, religious, literary, and economic history of England during these two periods.

(b) THE BRITISH EMPIRE (*second term*) (3)—While a brief survey of the general history of England through the eighteenth and nineteenth centuries will be made, the attention of the class will be mainly devoted to a study of England's colonial history and of the forces that have developed the British Empire of today. An analysis of the present imperial policy will be given. A library and lecture course. *Prerequisite: History 2 or Junior standing.* M. T. Th. 2.

PROFESSOR REYNOLDS.

6. (a) NATIONAL GOVERNMENT (*first term*) (3) A study and comparison of the structure and powers of the national governments of England, United States, France, Germany, and Switzerland. Special emphasis will be given to the place of the federal system in public law. This course will be based on the works of Burgess, Beard, Garner, and the constitutions of the different countries.

(b) INTERNATIONAL LAW (*second term*) (3)—A brief sketch of the history of international law, and a study of the principles now considered binding on civilized nations. For Juniors or Seniors who have had at least three hours of college history. *Text-book: Davis' Elements of International Law.* Considerable library work will be required. T. W. F. 3.

ASSOCIATE PROFESSOR THOMAS.

1. (a) HISTORY OF GREECE (*first term*) (2)—This course is designed to give a more extensive knowledge of the history and the institutions of the Greeks. A general knowledge of the subject is presumed.

(b) HISTORY OF ROME (*second term*) (2)—The explanations made above in regard to the history of Greece apply to this course.

Offered in 1911-12

ASSOCIATE PROFESSOR THOMAS.

7. (a) FRENCH REVOLUTION AND THE NAPOLEONIC ERA (*first term*) (2)—France on the eve of the Revolution; her political philosophers; causes and events of the Revolution, and the wars of Napoleon.

(b) THE NINETEENTH CENTURY (*second term*) (2)—The democratic movement of the century; the development of constitutional government; the unification of Italy and Germany; and the present condition of world politics. Tu. Th. 4.

(c) LABORATORY (1)—Throughout the year. Laboratory work two hours a week in contemporary European History. For this purpose a room is equipped with tables, chairs, and with current German, French, and English periodicals, Statesman's Year Book, Annual Register, Who's Who, World's Almanac, atlases, maps, cyclopædias, and general histories. In the laboratory each student will study present-day European events and problems and their historical setting; periodical reports on topics and frequent conferences with instructors. A reading knowledge of German or French, while not required, will be helpful.

PROFESSOR REYNOLDS.

ASSOCIATE PROFESSOR THOMAS.

9. (a) THE UNITED STATES 1763-1783 (*first term*) (2)—The Colonies in their relations to the mother country with special reference to the attempt at imperial taxation. Particular attention will be given to the literature of the period as preparing the colonists for separation. The steps leading to the Declaration of Independence will be traced in detail; also the failure of the Confederation and the formation and adoption of the Constitution.

(b) THE CIVIL WAR AND RECONSTRUCTION (*second term*) (2)—The first part of this course will deal mainly with the events leading up to the war; the second with political, economic, and social phases of Reconstruction. *Prerequisite: Six hours of history.* T. Th. 6.

ASSOCIATE PROFESSOR THOMAS.

Not offered in 1911-12.

10. RECONSTRUCTION IN ARKANSAS (*Seminar*) (1)—A study from original sources of the history of Reconstruction in typical



counties of Arkansas. Students will gather in the summer the data from county records, newspaper files, interviews, etc., and after numerous conferences with the instructor the following year they will prepare papers or monographs.

PROFESSOR REYNOLDS.

## MATHEMATICS AND ASTRONOMY.

GEORGE W. DROKE, *Professor.*

B. J. DUNN, *Associate Professor.*

A. M. HARDING, *Associate Professor.*

JOSEPHINE M. DROKE, *Instructor.*

### Mathematics.

1a. ALGEBRA, SOLID GEOMETRY, PLANE TRIGONOMETRY—4 hours per week. About twelve weeks are given to each subject, Algebra coming first. *Text-book:* Durell's Plane and Solid Geometry, Sections 1 and 2. Tu. W. Th. F., periods 1 and 4.

PROFESSOR DROKE.

ASSOCIATE PROFESSOR HARDING.

INSTRUCTOR JOSEPHINE DROKE.

3c. ALGEBRA (*first term*), PLANE TRIGONOMETRY (*second term*)—3 hours per week. M. W. F., period 7. Open to Freshmen who have credit for solid geometry. *Text-book:* Rietz and Crathorne's College Algebra.

PROFESSOR DROKE.

1c. ALGEBRA (*first term*), SOLID GEOMETRY (*second term*)—3 hours per week. Sections 1, 2, 3. M. W. F., periods 3 and 4. Required of Freshmen engineers. *Text-book:* Rietz and Crathorne's College Algebra.

ASSOCIATE PROFESSOR DUNN.

INSTRUCTOR JOSEPHINE DROKE.

2c. PLANE TRIGONOMETRY (*first term*), ANALYTIC GEOMETRY (*second term*)—3 hours per week. Sections 1, 2, 3. Tu. W. Th., periods 1, 3, 4. Required of Freshmen engineers.

ASSOCIATE PROFESSOR DUNN.

ASSOCIATE PROFESSOR HARDING.

4. ANALYTIC GEOMETRY—3 hours per week. Elective for A. B. students of the Sophomore year. M. W. F., period 2. *Text-book:* Fine and Thompson's Coördinate Geometry.

PROFESSOR DROKE.

4a. ALGEBRA AND ANALYTIC GEOMETRY (*continuation of 2c*)—3 hours per week. Sections 1 and 2. M. W. F., periods 2 and 4. Required of Sophomore engineers.

ASSOCIATE PROFESSOR DUNN,  
ASSOCIATE PROFESSOR HARDING.

4b. DIFFERENTIAL AND INTEGRAL CALCULUS—2 hours per week. Sections 1 and 2. Tu. Th., period 2. Required of Sophomore engineers. *Text-book*: Townsend and Goodenough's Essentials of Calculus.

PROFESSOR DROKE.  
ASSOCIATE PROFESSOR HARDING.

5b. ALGEBRA (*continuation of Algebra 1a*)—2 hours per week. Elective for A. B. Sophomores. Tu. Th., period 2.

ASSOCIATE PROFESSOR DUNN.

6. DIFFERENTIAL AND INTEGRAL CALCULUS—3 hours per week. M. W. F., period 3. Elective for A. B. Juniors and Seniors.

PROFESSOR DROKE.

6b. ALGEBRA AND CALCULUS—2 hours per week. Tu. Th. period 3. Required of Junior engineers. Fine's College Algebra.

ASSOCIATE PROFESSOR HARDING.

The following elective courses are offered, but on account of the limited teaching force not more than two of them may be taken in the same year.

8. SPHERICAL GEOMETRY, PLANE AND SPHERICAL TRIGONOMETRY, THEORY OF EQUATIONS—2 hours per week.

8a. THEORY OF EQUATIONS (*continuation of course 8*)—2 hours per week.

9. (a) DIFFERENTIAL EQUATIONS—3 hours per week. First or second term. Murray's Differential Equations.

(b) ANALYTIC GEOMETRY OF THREE DIMENSIONS—3 hours per week. First or second term. Books of reference: C. Smith's and Frost's Solid Geometry; Salmon's Geometry of Three Dimensions.

9a. MODERN ANALYTIC GEOMETRY—2 hours per week.

10. THEORETICAL MECHANICS—2 hours per week.

12. ADVANCED CALCULUS—3 hours per week.

15. MODERN PURE GEOMETRY—3 hours per week. First or second term. Books of reference: Godfrey and Siddon's Modern Geometry, and Askwith's Pure Geometry. This course

will include the discussion of the theorems of Ceva and Menelaus, Harmonic Section, Pole and Polar, Orthogonal Circles, the Circle of Apollonius, Ptolemy's Theorem, Coaxal Circles, Inversion, Orthogonal Projection, and Cross-Ratio. These topics will be treated in an elementary way.

All those who are preparing to become teachers of mathematics in high schools will find this course very helpful. *Prerequisite: 1c and 2c, or their equivalent.*

PROFESSOR DROKE.

NOTE—Those who make mathematics their major subject must take courses 1a, 4, 5b, 6, and 8, or their equivalent. Courses 9, 9a, 12, and 15 may be taken by graduate or undergraduate students.

### Astronomy.

16. DESCRIPTIVE ASTRONOMY—2 hours lectures and recitations, with occasional meetings at night for observation. *Text-book:* Moulton's Introduction to Astronomy.

ASSOCIATE PROFESSOR HARDING.

17. SPHERICAL AND PRACTICAL ASTRONOMY—2 hours. Astronomical coördinates. Parallax. Time. Use of a sextant and transit instrument, determination of latitude, etc.

ASSOCIATE PROFESSOR HARDING.

17a. CELESTIAL MECHANICS—2 hours per week.

### PHILOSOPHY AND PEDAGOGY.

W. S. JOHNSON, *Professor.*

ROSE BLAND, *Principal, Training School.*

GUYON CARNES, *Critic Teacher.*

The object of the courses offered in this department is (a) to afford general culture, and (b) to train those who expect to enter professional life, especially law, medicine, ministry, and teaching.

For those contemplating the professions of law, journalism, and business, the following courses are recommended: 7, 8, and 9; Medicine: 7, 8, and 10; Teaching: 1, 3, 4, 5, and 6.

For the required course of study in the normal department, and the conditions under which the certificate of Licentiate of Instruction is granted, see pages 88-90.

Students selecting pedagogy as a major are required to take the following courses: 1 or 8a, 3, 4 or 8b, 5 and 6. The com-



pletion of these courses as a part of the work offered for the B. A. degree entitles the student to the Normal Diploma also, under conditions as given on pages 88-90.

1. ELEMENTARY PSYCHOLOGY (*first term*) (3)—This course serves as an introduction to pedagogy. The course though open to all students in the collegiate department, is especially designed for the students in the normal department. The different functions of the mind are studied from the physiological and experimental standpoints. It is intended to make it as concrete as possible—by a study of the nervous system, and by experiments to demonstrate the action and interaction between the mind and the nervous tissue. *Text-book*: Gordy's New Psychology. M. W. F. 1 and M. W. F. 2. PROFESSOR JOHNSON.

3. SCIENCE OF INSTRUCTION (2)—The methods discussed are based on psychology. The broader generalizations of the science of education are studied; and the student learns to apply the principles of psychology to the work of teaching. During the first term the method of the recitation is studied; the special methods, during the second term. *Text-books*: McMurry's Method of the Recitation, and his Special Methods. T. Th. 1, and T. Th. 2. MISS BLAND.

4. HISTORY OF EDUCATION (*second term*) (3)—This course includes the study of the educational systems and methods of ancient, mediæval, and modern nations; lives and theories of educational reformers; growth of education in the United States and in the State of Arkansas. *Text-books*: Monroe's Brief Course in the History of Education; Arkansas School Law. M. W. F. 1 and M. W. F. 2. PROFESSOR JOHNSON.

5. CHILD STUDY (4)—In this course it is intended to make a practical application of the principles studied in courses 1, 3, 4, and 6a. The characteristics of children as seen in the school-room, at home, and at play, are carefully studied. Topics are assigned and discussed at the general critique held once each week. Daily practice teaching in the model school.

MISSES BLAND AND CARNES.

6. (a) EDUCATIONAL PSYCHOLOGY (*first term*) (2)—This course applies the principles of psychology to the school-room. Special attention is given to such subjects as the sources of interest,

the characteristics of imitation, heredity, attention, memory, imagination, emotions, will and character. *Text-book*: Garlick and Dexter's Psychology in the School-room.

PROFESSOR JOHNSON.

(b) THE MODERN HIGH SCHOOL (*second term*) (2)—In addition to assigned readings and references to the library, the following topics will be discussed during the term: The origin and development of the high school; its functions; courses of study; organization and management; material equipment; the teacher; the principal; the pupil; the class exercise; government; social life; the high school and the community; present problems.

7. ABNORMAL PSYCHOLOGY (1)—This course is designed to supplement course 8, and to discuss especially the psychological conditions and mental phenomena of sleep, dreams, hypnotism, somnambulism, sanity, insanity, illusion, hallucinations, mind reading, etc. This, as well as course 8, will be especially valuable to those students who expect to study law or medicine. It is intended to throw light on many of the peculiarities of mental life as exhibited in mankind. Lectures, discussion of reports. *No prerequisite (though desirable to be accompanied or preceded by course 1 or 8).*

PROFESSOR JOHNSON.

8. (a) GENERAL PSYCHOLOGY (*first term*) (3)—This course discusses the general principles of the thought process. The mind is studied from the physiological, experimental, comparative, and introspective points of view. *Text-book*: James' Briefer Course in Psychology.

(b) LOGIC (*second term*) (3)—An introductory course in inductive and deductive reasoning. *Text-book*: Creighton's Introductory Logic. M. W. F. 7. *Open to Juniors and Seniors only.*

PROFESSOR JOHNSON.

9. ELEMENTS OF ETHICS (2)—The bearing on the standing of the theories of evolution, sociology, biology, economics, and political economy, as applied to real life. *Text-book*: Dewey and Tuft's Ethics.

## PHYSICS.

G. E. RIPLEY, *Professor.*

The following courses are given in order to meet the needs of the student of agriculture, of arts, of engineering, and of natural

science, as well as for those students who may desire to pursue the subject for teaching or investigation purposes:

1. GENERAL PHYSICS (3)—Two hours a week throughout the year are devoted to recitation work and two hours a week to work in the laboratory. *Required of all engineering students; elective for others who have had or are taking Freshman mathematics.* M. W. 3; T. Th. 3; T. F. 4; M. T. W. Th. 6, 7.

2. GENERAL PHYSICS (3)—A continuation of course 1. Lectures and recitations three hours a week throughout the year. *Required of Sophomores in electrical engineering; elective for others who have had course 1.* Special emphasis is placed upon mechanics, heat, and electricity. M. T. W. 1.

2a. LABORATORY WORK (2)—Four hours a week throughout the year. The work must be taken the same year as course 2. A knowledge of calculus is desired. The work will include measurement of moment of inertia, torsion, center of mass, co-efficient of friction and of elasticity, thermal expansion, conduction, Ohm's law, capacity, high and low potentials, photometry, etc. F. 5, 6, 7, 8.

3. EXPERIMENTAL PHYSICS (4)—Lectures and recitations from lessons assigned in text-book. Will include many demonstrations, experiments, and problems with a systematic development of the important laws and principles of the subject and the application of the same to our every-day life. Three hours a week are devoted to class work and two hours a week to work in the laboratory.

This course is offered for those students who desire to acquire some knowledge of the important principles of physics but do not care to go further in the subject. This course is open to any student of college grade who has had college algebra and geometry.

4. MECHANICS ( $1\frac{1}{2}$ )—First semester. Five hours a week, mostly laboratory work. *Prerequisite: Course 1.*

5. HEAT ( $1\frac{1}{2}$ )—Second semester. Five hours a week, mostly laboratory work. *Prerequisite: Course 4.*

6. ELECTRICAL MEASUREMENTS (2)—First semester. In certain cases course 6 may be taken in place of course 5; otherwise it must be preceded by courses 4 and 5. Four hours a week are given to work in the laboratory and two hours a week to recita-



tions and discussions. The theory of electrical measuring instruments and of electrical measurements is discussed in the class work, and in the laboratory the student will calibrate measuring instruments and test the properties of conductors, electrolytes, and dielectrics.

7. LIGHT (2)—Second semester. Four hours' laboratory work and two hours' class work per week. The class work will deal largely with the modern theory of light and a discussion of the recent discoveries in this field. There will be some work in spectroscopy. The laboratory work will include use and study of the photometer, optical bench, interferometer, optical pyrometer, etc.

Courses 6 and 7 may be taken by students expecting to study medicine, but must be preceded by course 1.

8. MATHEMATICAL PHYSICS (3)—Three hours a week throughout the year. *Prerequisite: Courses 1, 4 and 5, or 6 and 7. A knowledge of calculus is required.*

9 and 9a. This course is arranged for students of chemistry and must be preceded by course 1. This work will deal largely with osmosis, vapor density, diffusion, and electro-chemistry.

10. ACOUSTICS—Second semester. Two recitations a week and four hours' work in the laboratory. This will include a study of wave motions, emphasis being placed upon sonorous and electrical vibrations.

11. THE TEACHING OF PHYSICS—This course is arranged for those students who contemplate teaching physics in the secondary schools.

This work will take up a study of the methods of presenting the subject both in the class-room and in the laboratory. Reports will be made upon the different topics. The various secondary texts and manuals will be discussed and used in making the reports. *Prerequisite: Courses 1, 4, 5, 6, and 7.*

## ROMANCE LANGUAGES.

A. MARINONI, *Professor.*

### French.

1. ELEMENTARY COURSE (3)—Reading and composition. Pronunciation is carefully taught and oral drill insisted upon

Thieme and Effinger's French Grammar, Douay's Elementary French Reader, and other easy texts. M. W. F. 2; T. W. Th. 7.

2. FRENCH PROSE AND POETRY (3)—Composition, sight reading, conversation. Cameron's French Composition will be used, and representative works of modern French authors will be read. M. W. F. 3.

3. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY (3)—The aim of this course is to obtain a general view of the classic period of French literature. The most important literary productions of the century will be read and analyzed in the class room. Considerable outside reading will also be assigned with written reports from time to time. The course is conducted in French. M. W. F. 4.

3a. FRENCH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES (3)—The first term will be devoted to the study of representative works of the Eighteenth Century. In the second term especial attention will be given to the Romantic Movement in France and works from such writers as Lamartine, Vigny, de Musset, Hugo, and others will be read. Tu. and Th. 3 and Fr. 6.

4. MODERN FRENCH POETRY (1)—The object in this course is a systematic study of the evolution of French poetry from 1850 to our days. New tendencies in poetry, and the reaction against romanticism as shown in the works of Leconte de Lisle, Verlaine, Baudelaire, Heredia, Prudhomme. The text used in the class room will be *Modern French Lyrics*, by A. Marinoni and Ch. G. Carroll. Reports will be required on collateral reading. Hour to be arranged.

4a. FRENCH DRAMA (1)—The evolution of French drama from the origins to the present time. Lectures, written reports, outside reading. One hour, by appointment.

4b. FRENCH SYNTAX (1)—French syntactical forms will be studied from the historical standpoint. Given in even years—1912, 1914, etc.

4c. ADVANCED FRENCH COMPOSITION (1)—This course is open to all students who have had at least two years of French.

NOTE.—In French the work for the first two years is entirely linguistic, the study of literature being deferred until the third year.

### Italian.

1. ELEMENTARY COURSE (3)—Marinoni's Elementary Italian Grammar, Marinoni's Reader. Composition, conversation. M. W. F. 4.

2. ADVANCED COURSE (3)—The first semester will be given to a general survey of the Fifteenth and Sixteenth Centuries, and selections from the works of Machiavelli, Ariosto, Tasso, will be read. The second semester will be devoted to the study of the Divina Commedia. (Inferno; Grandgent's edition; Heath & Co.)

3. DANTE IN ENGLISH (1)—Only Seniors whose major work is in English can enter this course. One hour, by appointment.

### Spanish.

1. ELEMENTARY COURSE (3)—Loiseaux's Grammar; Padre Isla's Gil Blas and other easy texts; composition; conversation. M. T. F. 5.

2. MODERN SPANISH (3)—Selections from the best productions of the Nineteenth Century will be read; assigned reading; composition, conversation. M. Fr. 7. and W. 1.

NOTE—The Department of Romance Languages receives regularly the following periodicals: *Revue des Deux Mondes*; *Revue Hebdomadaire*; *L'Illustration*; *L'Opinion*; *Le Temps*; *Nuova Antologia*; *Illustrazione Italiana*; *Corriere della Sera*; *Espanna Moderna*.

### CIVIL ENGINEERING.

J. J. KNOCH, *Professor*.

V. P. KNOTT, *Associate Professor*.

P. C. HUNTLEY, *Adjunct Professor*.

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of surveying, applied mechanics, road and railroad engineering, hydraulic engineering, bridge engineering, and sanitary engineering. A general outline of the course is found on page ...



*Instruction*—The work in surveying extends over three years. It embraces land surveying, leveling and United States public land surveys during the Sophomore year; topography, railroad reconnoissance and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being carried on parallel with the class-room work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

1. DESCRIPTIVE GEOMETRY (2)—Recitation and practice first term. *Text-book*: Church's Descriptive Geometry. Engineering Hall. Th. 8:30-9:30; M. 1:30-3:20.

PROFESSOR KNOCH.

ADJUNCT PROFESSOR HUNTLY.

1a. DRAWING (3)—Selection and care of instruments. Drawing geometrical figures, conventional representation of materials, copying and tracing working drawings, and drawing from models. Two afternoons throughout the year. Engineering Hall. T. W. 1:30-3:20.

ADJUNCT PROFESSOR HUNTLY.

2. SURVEYING (*with 3*) (3)—First, and part of second term. Care, use, and adjustment of instruments, use of chain, tape, compass, transit, solar attachment, level, sextant and plane table; land surveying, leveling, contouring, laws, and instructions relating to surveys of the public domain. *Text-book*: Raymond's. Engineering Hall. T. F. 8:30-9:30.

ASSOCIATE PROFESSOR KNOTT.

3. FIELD PRACTICE—Exercises in land, city and topographical surveying. One afternoon throughout the year. Th. 12:40-4:00.

ADJUNCT PROFESSOR HUNTLY.

4. HIGHWAYS (1)—One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. *Text-book*: Spalding's Roads, Streets, and Pavements. Engineering Hall. Th. 8:30-9:25.

ADJUNCT PROFESSOR HUNTLY.

4a. ARCHITECTURAL DRAWING (1)—One hour per week, second term. Elementary course in architecture; drawing plans and elevations of simple structures; analysis of plans. M. 1:30-3:20.

ADJUNCT PROFESSOR HUNTLY.

5. RAILROAD ENGINEERING (2)—Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railroad location and management. *Text-book:* Searle's Field Engineering and Crandall's Transition Curve and Earthwork Computations, first term; second term, Raymond's Railroad Engineering Part II. Engineering Hall. T. Th. 10:20-11:15. PROFESSOR KNOCH.

6. FIELD PRACTICE (2)—Location of curves, turnouts, and Y's; measurement of embankments and cuts, and computation of volumes. Four hours a week throughout the year. F. 12:40-4:00. PROFESSOR KNOCH.

7. RAILROAD SURVEY—One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.

8. DRAWING (2)—Lettering titles for maps and drawings. Pen and colored topography. Four hours a week throughout the year. Engineering Hall. M. W. 8:30-10:20.

ASSOCIATE PROFESSOR KNOTT.

8a. DRAWING (2)—Lectures and practice two afternoons a week throughout the year. Shades, shadows, and perspective. Topographical and railroad maps from actual surveys; masonry dams, structural details, and working drawings for designs. Engineering Hall. M. T. 1:30-2:30.

ASSOCIATE PROFESSOR KNOTT.

9. MASONRY CONSTRUCTION (2)—Two hours per week, first term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams; cribs and caissons. *Text-book:* Baker's Masonry Construction. Engineering Hall. W. Th. 11:15-12:10.

ASSOCIATE PROFESSOR KNOTT.

10. ROOFS AND BRIDGES (3)—Four hours per week, first term; three hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of materials for roof truss and railroad bridge. *Text-books:* Merriman and Jacoby's Roofs and Bridges, Parts I, II, and III. Engineering Hall. M. T. W. F. 9:25-10:20.

PROFESSOR KNOCH.

11. SANITARY ENGINEERING (2)—Two hours per week, first term. Calculation and special details of construction of sewers;

separate and combined systems of sewerage; purification of sewage; municipal and domestic sanitation. *Text-book:* Folwell's. Engineering Hall. T. F. 8:30-9:25.

PROFESSOR KNOCH.

12. TECHNICAL DRAWING (2)—Lectures and practice, four hours per week throughout the year. Right and oblique arches; drawings for computation of course 10. Engineering Hall. T. W. 1:30-3:20.

PROFESSOR KNOCH.

13. WATERWORKS ENGINEERING (3)—Three hours per week, second term. Study of systems of water supply; collection, purification, and distribution of water; location of waterworks, with details of estimates of cost; turbines and pumping engines. *Text-book:* Folwell's Water Supply Engineering. Engineering Hall. W. Th. 9:25-10:20.

PROFESSOR KNOCH.

14. ENGINEERING LABORATORY (2)—Two hours per week, first term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone, and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs. Engineering Hall. F. 12:40-4:00.

ADJUNCT PROFESSOR HUNTLY.

15. FIELD PRACTICE (2)—Two hours per week, second term. Topographical survey, triangulation, precise leveling, and practical astronomy. Th. 12:40-4:00.

ASSOCIATE PROFESSOR KNOTT.

15a. REINFORCED CONCRETE (2)—Two hours per week, first term. Recitations, lectures, and practical problems on the theory and design of various structures in reinforced concrete.

ASSOCIATE PROFESSOR KNOTT.

16. CONTRACTS AND SPECIFICATIONS (3)—Elective for Seniors in Engineering. Lectures and recitations three times per week. *Text-books:* Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence. Engineering Hall. M. T. W. 9:25-10:20.

PROFESSOR BROUGH.

17. SURVEYING (3)—Second term. Care, use, and adjustment of instruments; platting field notes. Running grade lines and simple curves for electric railways.

Recitations one hour and field practice two hours per week. Elective for Electrical Engineers. *Prerequisite:* Plane Trigonometry.

ASSOCIATE PROFESSOR KNOTT.

ADJUNCT PROFESSOR HUNTLY.



## ELECTRICAL ENGINEERING.

W. B. GLADSON, *Professor.*

L. S. OLNEY, *Associate Professor.*

W. B. STELZNER, *Adjunct Professor.*

This course of instruction is intended to afford a good general education, and at the same time to ground the student so thoroughly in the principles of electrical engineering as to furnish a good foundation for the profession.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the student a degree of facility in the use of the instruments and machines which is acquired only by continued practice. As a requisite for graduation each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of electrical engineering. It must be announced not later than the beginning of the second term of the senior year, and be approved by the professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the library as the property of the University.

1. ELECTRICAL ENGINEERING (3)—Recitations, demonstrations, and laboratory work. A general elementary course in electrical machinery: dynamos, motors, transformers, electric signals, mine haulage and illumination. This course may be elected for one-half year. Required of mining engineering students the first term. Elective in other courses. *Prerequisite: Physics 1.* Engineering Hall, second floor. M. Tu. W.

ADJUNCT PROFESSOR STELZNER.

2. FREEHAND AND MECHANICAL DRAWING (2)—Practice four hours a week, first term; freehand drawing from models and machine parts; lettering; line shading; dimensions. Second term: mechanical drawing; care and use of instruments; copying of mechanical drawings; blue printing; scale drawings from models and machine parts; line shading. Engineering Hall, second floor. M. Tu. 6, 7.

ADJUNCT PROFESSOR STELZNER.

2a. DRAWING (2)—Recitations and practice two hours a week throughout the year. Accurate mechanical drawings from electrical machinery; architectural drawings; perspective; shades and shadows; orthographic projections. *Text-books: Mechani-*

cal Drawing by Cross, and Handbook of Perspective by Otto Fuchs. Engineering Hall, second floor. M. T. 6, 7.

ASSOCIATE PROFESSOR OLNEY.

3. ELECTRICAL ENGINEERING DESIGN (2)—Lectures and practice, four hours a week throughout the year. Working drawings of electrical machinery; wiring plans; design of direct current machinery; specifications and estimates. Engineering Hall, first floor. M. Tu. 6, 7.

PROFESSOR GLADSON.

ADJUNCT PROFESSOR STELZNER.

4. ELECTRICAL ENGINEERING DESIGN (2)—Four hours, first term only. Lectures and drawing. Design of alternate current machinery; motors, transformers, and generators. *Prerequisite:* Course 3. Engineering Hall, first floor. M. Tu. 6, 7.

PROFESSOR GLADSON.

4a. PHOTOMETRY OF ELECTRIC LAMPS (2)—Lectures, recitations, and laboratory work. Second term. *Prerequisite:* *Physics 1 and 2; E. E. 7, 5, and 3.* Engineering Hall, first floor. M. Tu. 6, 7.

PROFESSOR GLADSON.

5. ELECTRICAL LABORATORY (2)—One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force and resistance; use and calibration of instruments; exploration of magnetic fields; testing of direct current dynamos and motors. Engineering Hall, basement. Th. 5, 8.

PROFESSOR GLADSON.

ASSOCIATE PROFESSOR OLNEY.

ADJUNCT PROFESSOR STELZNER.

6. ELECTRICAL LABORATORY (2)—One afternoon a week throughout the year. A full experimental course in operating and testing direct and alternate current machines; photometry transmission, storage and transformation of electric energy. Special courses given suited to the preparation and object of the student. Engineering Hall, first floor. W. F. 5, 8.

PROFESSOR GLADSON.

ASSOCIATE PROFESSOR OLNEY.

ADJUNCT PROFESSOR STELZNER.

7. DYNAMO-ELECTRIC MACHINERY (3)—Recitations three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and

transformers; designs, calculations, construction, testing, and operating. *Text-book*: Thompson's Dynamo-Electric Machinery, Vol. I. Engineering Hall, second floor. M. W. F. 2. *Prerequisite*: *Physics 1 and 2*.

ASSOCIATE PROFESSOR OLNEY.

8. THEORY OF ALTERNATE CURRENTS (3)—Recitations three times a week, first term. *Text-book*: Dynamo-Electric Machinery, Vol. II, by S. P. Thompson. Engineering Hall, first floor. M. T. W. 1.

PROFESSOR GLADSON.

9. POLYPHASE ELECTRIC CURRENTS (3)—Recitations and lectures three times a week, second term. *Text-books*: Thompson's Dynamo-Electric Machinery, Vol. II. *Reference Books*: Alternate Current Motors, McAlester, and technical journals. Engineering Hall, first floor. M. T. W. 1.

PROFESSOR GLADSON.

10. ELECTRIC RAILWAYS (2)—Recitations and lectures twice a week, second term. *Reference book*: Electric Railway Engineering, by Parshall & Hobart, and International Correspondence School Pamphlets. Engineering Hall, first floor. Th. F. 2.

PROFESSOR GLADSON.

11. TELEPHONY, TELEGRAPHY, RAILWAY SIGNALS, FIRE ALARMS AND RELATED APPARATUS (2)—Recitations and lectures twice a week throughout the year. *Text-books*: K. B. Miller's American Telephone Practice, and American Telegraphy, by Maver. Engineering Hall, first floor. Th. F. 1. *Prerequisite*: *Physics 1*.

ASSOCIATE PROFESSOR OLNEY.

11a. LABORATORY WORK (1)—With the telephone, telegraph, railway signals and allied apparatus. Engineering Hall, basement. F. 3, 4.

ASSOCIATE PROFESSOR OLNEY.

13. POWER STATIONS (2)—Lectures and recitations two hours a week, first term. Selection of machinery for power stations; steam, hydraulic, gas, and electrical. Station construction, operation, and management. Senior elective. M. Th. 2.

PROFESSOR GLADSON.

14. ELECTRIC TRANSMISSION AND DISTRIBUTION (2)—Recitations and lectures two hours a week, second term. A study of the different methods of electrical power distribution for light, railway or stationary power; long distance transmission. Senior elective. Engineering Hall, first floor. M. Tu. 2.

PROFESSOR GLADSON.



15. ALTERNATING CURRENT MOTORS (2)—Lectures and recitations twice a week, second term only. This course must be preceded by courses E. E. 7 and E. E. 8. Engineering Hall, first floor. Elective. PROFESSOR GLADSON.

16. HYDRO-ELECTRIC DEVELOPMENTS (2)—Lectures and recitations two hours per week, second term only. A study of the method of investigating power possibilities of flowing water, collecting data, selecting power sites, power house, transmission lines and machinery. *Prerequisite: Courses in E. E. 6 and E. E. 8.* Elective. PROFESSOR GLADSON.

17. ELECTRICAL ENGINEERING SEMINAR—Students who attend and take part in 75 per cent. of the meetings of the "University Branch of the American Institute of Electrical Engineers," during their Junior and Senior years, and prepare and present an acceptable original paper on some engineering subject will be given one hour's credit.

INSPECTION TRIP—Once each year visits of inspection are made by the Senior class to power houses and large electrical installations; or a week is spent in actual practice work in determining the hydro-electric possibilities of some stream.

HISTORY OF ENGINEERING—The early development of engineering, as traced from history and from the remains of ancient works; development of engineering in later periods and its growth into a separate profession; the effect on civilization, general history and economic problems of the several inventions and other improvements which have marked the development of engineering; study of lives of some famous engineers; also the development of the general technical principles of engineering.

#### MECHANICAL ENGINEERING.

B. N. WILSON, *Professor of Mechanical Engineering and Superintendent of Mechanic Arts.*

B. MITCHELL, JR., *Associate Professor of Mechanical Engineering and Assistant Superintendent of Mechanic Arts.*

H. W. DEAN, *Instructor in Mechanical Engineering.*

W. E. DUCKWORTH, *Instructor in Mechanical Engineering.*

W. T. CRIPPIN, *Engineer.*

Two courses are offered, a four-year course leading to the degree of B. M. E. (see page 80), and a short course of two years for which a certificate is given (see page 91).

While a major part of a course in mechanical engineering necessarily consists of scientific and technical studies, the four years' course affords a good general education.

The course provides suitable training for young men having in view positions in the management of manufacturing processes, or plants where machinery is used extensively.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of engineering branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical application of the truths and theories taught in the class-room, a part of the time being devoted to shop work, drawing, and laboratory practice.

Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

SHOP WORK—M. E. 1 (a), Carpentry. A course in carpentry and joinery laid out to meet the requirements of students in agriculture. M. 5, 6, 7. MR. DUCKWORTH.

(b) FOUNDRY—Green sand moulding; melting and pouring brass and iron; core making. This work is made as practical as possible. M. Tu. 5, 7; W. Th. F. 1, 3; 5-7; Sat. 1-3. MR. DUCKWORTH.

(c) FORGING—Management of fires; drawing and welding; riveting and tempering; case hardening and annealing. M. 5-7; Tu. W. Th. F. 1-7; Sat. 1-4. MR. DEAN.

(d) PATTERN MAKING—Practice in making patterns; care and use of wood-working machinery. M. Tu. 5-7; W. Th. F. 1-3, 5-7; Sat. 1-3. MR. DUCKWORTH.

(e) MACHINE SHOP PRACTICE—Exercises in chipping and filing; practical work in turning; planing, drilling; grinding; use of milling machine; erection of machinery. M. 5-7; Tu. W. Th. F. 1-7; Sat. 1-4. MR. DEAN.

(f) ADVANCED WORK—In any of the above courses.

MR. DEAN or

MR. DUCKWORTH.

(g) MANUAL TRAINING, 1 or 2 credits—A beginner's course in manual training suitable for teachers intending to teach manual

training in the grammar schools, and familiarize themselves with the use of tools. This course is made up of work in card board, sloyd, wood carving, and simple exercises in joinery and cabinet making. M. Tu. S. 1, 2, 3. MR. DUCKWORTH.

(h) MANUAL TRAINING, 1 or 2 credits—A continuation of course (g) with advanced exercises in wood carving and cabinet making. This course includes wood turning, and the staining and finishing of furniture. M. Tu. S. 1, 2, 3.

MR. DUCKWORTH.

2. (a) MECHANICAL DRAWING (2 or 3)—Lettering; free hand drawing; geometrical drawing; copying machine drawings; working drawings from machine parts; tracing; blue printing. M. Tu. or F. 6-7.

ASSOCIATE PROFESSOR MITCHELL.

(b) MECHANICAL DRAWING (*first term*) (2)—Perspective and and isometric drawings; intersections; development; detail drawing; blue printing. M. Tu. or F. 6-7.

ASSOCIATE PROFESSOR MITCHELL.

(c) ARCHITECTURAL DRAWING (2)—Conventional methods of representing different materials of construction; standard details of buildings; plans; elevations; sections; working drawings; tracing. *Prerequisite: M. E. 2 (a) or an equivalent.* M. Tu. or F. 6-7.

ASSOCIATE PROFESSOR MITCHELL.

3. (a) MACHINE DESIGN (3)—Kinematics of machinery; design of gear teeth; link motions, cams, etc. One hour's recitation and six hours' drawing per week. M. 3 and M. Tu. or F. 5, 6, 7.

ASSOCIATE PROFESSOR MITCHELL.

(b) MACHINE DESIGN (*second term*) (2)—A study of empirical methods of design, and the application of the principles of mechanics to the design of machine elements. Drawing M. Tu. or F. 6-7.

ASSOCIATE PROFESSOR MITCHELL.

4. (a) ELEMENTARY MECHANICS—An elementary course in mechanics and hydraulics. Tu. Th. F. 3.

ASSOCIATE PROFESSOR MITCHELL.

(b) THEORETICAL MECHANICS (*first term*) (4)—The application of mathematics to the movement of bodies. Mathematical discussions of force, inertia, energy, etc. *Text: Hancock's Mechanics.* M. Tu. W. Th. 1, or M. Tu. W. Th. 2. Required of all Junior engineers. *Perequisite Math. 4 (3).*

ASSOCIATE PROFESSOR MITCHELL.



(c) MECHANICS OF MATERIALS (*second term*) (5)—The materials of construction. Timber, stone, iron, steel, cement, brick, etc., are studied. The formulæ for the figuring of strength of beams, columns, shafting, etc., are developed. Numerous applications of the formulæ to practical problems are made. *Text*: Houghton's Mechanics of Materials. M. Tu. W. Th. 1, or M. Tu. W. Th. 2. *Required of all Junior engineers. Prerequisite: M. E. 4 (3) Math. 4 (3)* ASSOCIATE PROFESSOR MITCHELL.

5. (a) STEAM ENGINES AND BOILERS (3)—Elementary theory of steam engines and boilers; care and management of same; valve gears. Three hours per week one year. M. Tu. F. 4. PROFESSOR WILSON.

(b) STEAM ENGINES AND BOILERS (*first term*) (3)—Elementary thermodynamics; theoretical heat engines; valves; valve gears; comparison of type of steam engines, boilers, and feed water pumps; use of feed water heater, condensers, etc., discussed. T. Th. 3; F. 1. PROFESSOR WILSON.

(c) GAS ENGINES AND PRODUCERS (*second term*) (3)—Development and theory of different types of gas and oil engines discussed. Suction and pressure producers studied. Cost of gas and steam power compared. *Text*: Carpenter's and Deaderichs' Internal Combustion Engines. Tu. Th. 3; F. 1. PROFESSOR WILSON.

6. (a) OPERATION OF POWER PLANT EQUIPMENT (2)—The actual operation of steam, gas, and oil engines, boilers, pumps, condensers, and the repairing of same. Six hours' work per week are required in this course for 2 hours' credit. Elective for short course engineers and agricultural students. Th. F. 5, 6, 7. MR. CRIPPIN.

(b) EXPERIMENTAL ENGINEERING (2)—Calibration of Engineering instruments; indicators, steam gauges, planimeters, nozzles, meters, weirs, etc.; tests of materials of construction in tension, torsion, compression and bending; valve setting. *Text-book*: Experimental Engineering, Carpenter. Four hours' laboratory work per week. W. 4, 5, 6, 7, or Th. 5, 6, 7, 8. ASSOCIATE PROFESSOR MITCHELL.

7. MACHINE DESIGN (4)—Theory of steam and gas engines; problems in steam and gas engines and boiler design. One recitation, six periods of drawing. F. 3. period. *Prerequisite: M. E. 3.* PROFESSOR WILSON.

8. EXPERIMENTAL ENGINEERING (2)—Complete tests of different types of steam engines, boilers, pumps, gas engines, oil engines, turbines, special investigations. F. 5, 6, 7, 8.

PROFESSOR WILSON.

9a. HYDRAULICS (2)—Hydraulics and Hydrostatics, the second term during the Junior year. *Text-book*: Treatise on Hydraulics, Merriman. Two recitations per week. Tu. Th. 4.

PROFESSOR WILSON.

9b. HYDRAULIC MACHINERY (2)—A study of the design, construction, and operation of turbines and pumping machinery. the first term of the Senior year. *Text-book*: Treatise on Hydraulics, Merriman. Two recitations per week. Tu. Th. 4.

PROFESSOR WILSON.

10. METHODS OF ICE-MAKING, COLD STORAGE (2)—Theory of the absorption and compression systems of ice-making; ice-making machinery; cost of making; buildings; insulation of storage rooms.

PROFESSOR WILSON.

11. HEATING AND VENTILATION (3)—The theory of heating and ventilation is studied, including the flow of air and products of combustion in pipes and chimneys. The sources of the impurities in the air are thoroughly gone into. The requirements of good ventilation are considered, and the movement of air for ventilating purposes by fans and other means compared.

The different systems of heating by furnaces, steam and hot water are studied from the text, working drawings being made by the students of each system of heating, and the merits of each is fully treated; contracts, specifications, bills of material and cost of the different plants prepared. One recitation and four hours' drawing per week. W. 3, M. Tu. W. 5, 6, 7.

PROFESSOR WILSON.

12. STEAM ENGINEERING (4)—Mechanical engineering of power plants; selections of machinery for equipment of power stations; plans and specifications. One lecture and six hours' drawing per week, either one or two terms. F. 3, M. or Tu. 5, 6, 7. *Prerequisite*: M. E. 5.

PROFESSOR WILSON.

13. RAILROAD ENGINEERING (4)—Design and construction of locomotives; repairs for rolling stock; discussion of the problems relating to the mechanical engineering of railroads. Second term. *Prerequisite*: M. E. 4 and 5.

PROFESSOR WILSON.

14. EXPERIMENTAL ENGINEERING (2)—An advanced course in laboratory investigation for students desiring to take up a definite line of experiments related to some line of study in this department. The course of experiments and tests will be arranged to suit the needs of small sections.

PROFESSOR WILSON.

#### MILITARY DEPARTMENT.

R. D. CARTER, First Lieut. 8th U. S. Infantry.

The head of the military department is an officer of the United States Army, detailed by the War Department for duty at the University.

All male students over fifteen years of age, not physically disabled, are required to take the practical course in military science, including infantry drill, target practice, guard duty, and various other exercises. This practical course covers the entire period of the student's stay at the University.

The act of Congress donating public lands for educational purposes requires that institutions which are the beneficiaries of such donations include military science and tactics in their course of instruction.

The system of instruction closely follows that used in the United States Army, but it is not the object of the military department to make soldiers of the students of this University, but through a modified form of military discipline to promote habits of neatness, order, and punctuality.

The cadets are organized into one battalion, composed of field, staff, band, and six companies. The officers and the non-commissioned officers are selected from those cadets who are most proficient in their drill and military studies, and most exemplary in their deportment. The captains and the lieutenants are taken from the Senior and the Junior classes, and the sergeants and the corporals from the Sophomore class.

Each cadet is required to supply himself with the following articles of uniform clothing:

One (1) blouse.

One (1) pair trousers.

One (1) cap.

Two (2) pairs of white duck trousers.

Two (2) pairs of white cotton gloves.

Three linen collars.



The contract for supplying the above named articles is let each year by the Board of Trustees to the lowest and best bidder and the goods are delivered to the cadets by the agent of the successful bidder.

The cadet band of thirty pieces constitutes an interesting feature of the military organization. It receives the best instruction possible and takes part in all the military ceremonies.

Competitive drills are held at the close of each college year and prizes awarded for proficiency in this department.

The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers on graduation are breveted in the State Guard with the rank held by them in the cadet battalion at the date of their graduation.

The following is prescribed as the minimum course of military instruction, practical and theoretical.

PRACTICAL—Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms.

THEORETICAL—Instruction shall include the portions of the above subjects covered by the practical instruction, and may be supplemented by lectures. Under the authority of the President of the United States the military department is inspected every year by an army officer specially detailed for this purpose. A copy of the report of inspection is furnished the President of the University by the War Department.

## DEPARTMENT OF PHYSICAL CULTURE AND ATHLETICS.

HUGO BEZDEK, *Professor.*

The purpose of this department is to build up and maintain a good physical condition of the students and, through athletic contests in the popular college sports, to divert their minds from a too closeted life. Recognizing the fact that vigorous health is the basis for the best results in scholarship, the authorities have made physical exercises of some sort compulsory. The girls' gymnasium contains modern equipment and is directed

by a woman instructor. The prevalent systematic instruction is in vogue. Military drill is required of the men unless they are excused for participation in athletics.

¶ The popular sports, such as football, baseball, track, basket ball, and tennis are taught, and have representative teams. Secondary teams in these lines, such as 'Varsity scrubs and class teams, are organized and instructed, so that every one who enjoys these pastimes may receive their full benefit. This branch of the department is fully controlled by the faculty, the object being to foster clean sportsmanship.

# THE COLLEGE OF AGRICULTURE

Fayetteville.

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JOHN NEWTON TILLMAN, LL. D.,  
*President.*

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,  
*Dean and Professor of Entomology.*

ROBERT ROBSON DINWIDDIE, M. D., V. S.,  
*Consulting Professor of Pathology and Bacteriology.*

ERNEST WALKER, B. S. A.,  
*Professor of Horticulture.*

MARTIN NELSON, B. S. A., M. S.,  
*Professor of Agronomy.*

JOSEPH LEE HEWITT, B. S.,  
*Professor of Plant Pathology.*

GEORGE ALBERT COLE, B. S., A. M.,  
*Superintendent of Extension.*

PAUL N. FLINT, B. S., M. S.,  
*Professor of Animal Husbandry.*

J. F. STANFORD, V. S.,  
*Professor of Veterinary Science.*

CARL H. TOURGEE, B. S. A.,  
*Professor of Dairying.*

R. C. THOMPSON, B. S.,  
*Professor of Agricultural Chemistry.*

PAUL HAYHURST, A. B.,  
*Adjunct Professor of Entomology.*

ROBERT M. GOW, D. V. M.,  
*Adjunct Professor of Veterinary Science.*

JAMES YOWELL, B. S. A.,  
*Assistant in Animal Husbandry.*

CHARLES V. RUZEK, B. S. A.,  
*Adjunct Professor of Agronomy.*

J. MELVIN WILSON, B. S.,  
*Assistant Superintendent of Extension.*



W. C. LASSETTER, B. S. A.,

*Assistant in Agronomy.*

H. S. MOBLEY,

*Field Agent in Charge of Boys' Corn Clubs.*

J. L. STAHL, B. S. A.,

*Assistant in Plant Pathology.*

H. E. STEVENS, B. S. A.,

*Assistant in Plant Pathology.*

GEO. G. BECKER, B. S. A.,

*Assistant in Entomology.*

J. M. BORDERS, B. S. A.,

*Assistant in Extension.*

CARL CHRISTOPHER, B. S. A.,

*Assistant in Animal Husbandry.*

Instruction in the College of Agriculture is divided into the following departments:

1. Department of Entomology.
2. Department of Pathology and Bacteriology.
3. Department of Horticulture.
4. Department of Agronomy.
5. Department of Plant Pathology.
6. Department of Animal Husbandry.
7. Department of Veterinary Science.
8. Department of Dairying.
9. Department of Agricultural Chemistry.
10. Department of Extension.

The College of Agriculture, while distinct from the other divisions of the University in its buildings and equipment, is closely correlated in its work.

In addition to the regular classes in the College of Agriculture, the students will be admitted to the library, museum, laboratories, and to all lectures and instruction of the University, and to all other rights and privileges granted to other students.

Two courses in agricultural work are offered. They are:

1. THE COLLEGIATE COURSE of four years, leading to the degree Bachelor of Science in Agriculture. It is designed to give the student a broad education in the sciences and arts related

to agriculture. The work for the first two years is prescribed, the subjects being so chosen as to offer a good foundation for the more specialized work of the Junior and Senior years. The work in the Junior and Senior years will consist of ten hours in a major subject, six hours in minor subjects, eight hours in language and English, and eight hours of elective work.

This course is described in detail on page 144.

2. A SPECIAL COURSE. This course is practical in its nature, and is made up of work chosen from the longer course with this point in view. *Students will be admitted at the discretion of the Dean.*

3. CORRESPONDENCE COURSE—Open only to farmers of the State of Arkansas. Application blanks and question slips will be supplied upon request. The course will be in accord with some accepted text-book on elementary agriculture. No credit allowed toward a degree.

### THE COURSE IN AGRICULTURE.

For requirements for admission see page 43.

The following outline shows, in the work of the first two years, the basis on which specialization in the third and fourth is to rest. At the beginning of the Junior year each student must choose his major subject. The choice of his language subject, and of his minors, together with the details of his major, will then rest with the professor who has in charge the subject he has chosen as his major.

The major is to be chosen in one of the departments of the College of Agriculture, and it shall include a thesis based upon original research made by him, or upon some subject included in his course of study, or an original report upon some work of agricultural investigation. This thesis must be approved by the faculty, and must be handed to the professor in charge of the major subject, not later than April 1 of the Senior year.

The minor subjects shall be as many as two, and not more than three, and shall be allied to the major.

## Freshman Year.

FIRST TERM	Hrs.	SECOND TERM	Hrs.
English (1) M. T. Th. 2	3	English (1) M. T. Th. 2	3
Chemistry (1) T. Th. 4, W. 5, 6, 7	3	Chemistry (1) T. Th. 4, W. 5, 6, 7	3
Plant Physiology (11a) W. F. S. 1, 2	3	Chemistry (1a) T. 3, M. T. 5, 6, 7	3
Agronomy (1a) M. W. F. 3, 4	3	Plant Physiology (11b) W. F. S. 1, 2	3
Animal Husbandry (1a) T. Th. 1	2	Agronomy (1b) M. W. F. 3, 4	3
Shop Work (1a) M. 5, 6, 7	1	Animal Husbandry (1b) T. Th. 1	2
Mechanical Drawing (2a) T. F. 6, 7	2	Shop Work (1b) F. 5, 6, 7	1

## Sophomore Year.

FIRST TERM	Hrs.	SECOND TERM	Hrs.
Chemistry (1a) T. 3, T. W. 5, 6, 7	3	Agricultural Chem. (1b) M. W. 1	2
Physics (1) M. W. 3, Th. 6, 7, 8	3	Physics (1) M. W. 3, Th. 6, 7, 8	3
Veterinary Sci. (1) T. Th. S. 1	3	Horticulture (1b) W. F. 2, W. 6, 7	3
Agronomy (Soils) (2a) M. W. F. 1	3	Veterinary Sci. (1b) T. Th. S. 1	3
Agronomy (Soil) (Lab.) (3a) M. F. 5, 6, 7	2	Dairying (1b) M. T. 2, 6, 7	4
Animal Husbandry M. W. F. 2	3	Mycology T. F. 3, Th. 2, 3, 4, F. 6, 7, 8	4

## Junior Year.

FIRST TERM	Hrs.	SECOND TERM	Hrs.
Major	5	Modern Language	3
Minor	3	Major	5
Agronomy (4a and b)	5	Minor	3
Entomology (1b)	3	Elective	5
Elective	3		

## The Courses in Detail.

It is provided that any subject offered below but not prescribed in the above outline may be withdrawn unless four or more students enroll for it.

Subjects having the letter (a) following the number are offered only in the fall term, those with the letter (b) only in the spring term, and those with no such letter extend throughout the year.



## ENTOMOLOGY.

C. F. ADAMS, *Professor*.PAUL HAYHURST, *Adjunct Professor*.

1. (b) ENTOMOLOGY 1—Lectures and laboratory work on the anatomy, metamorphosis, classification, and habits of insects. Special attention is given to the economic relation of insects to agriculture, methods of control, inspection, machinery, and insecticides, field excursions. One lecture and six actual hours laboratory per week. Hours to be arranged. Three hours. Required of Juniors.

2. ENTOMOLOGY 2—Mostly laboratory work on the anatomy and taxonomy of insects and field work on injurious and beneficial insects with general reading of literature on economic problems. Must be preceded by Entomology 1. Three hours. Elective.

3. ENTOMOLOGY 3—A course in insect morphology. Lectures and laboratory work on gross anatomy, histology, physiology, embryology and neurology. Must be preceded by Entomology 1. Three hours. Elective.

4. TAXONOMY—Mostly laboratory work on the classification of insects. The nature of the work will depend on the preparation of the student. A group for special study will be assigned. Must be preceded by Entomology 1, and Entomology 2 and 3 are desirable as prerequisites. Three hours. Elective.

5. INSECT BIONOMICS—Lectures and demonstrations on variations, adaptations, distribution, dimorphism, mimicry, development of color patterns, ecology and phylogeny of insects. Must be preceded by Entomology 1 and 2. Three hours. Elective.

6. RESEARCH—Work given for the special student. After the student has selected his special problem, he is expected to carry on his studies only under the direction of the head of the department. Prerequisites depend on the nature of the problem. Three hours. Elective.

## HORTICULTURE.

ERNEST WALKER, *Professor*.

1. (b) PROPAGATION OF PLANTS—PRINCIPLES OF PLANT CULTURE—This course is of a wide practical value, dealing with the methods used in the greenhouse and nursery in the multiplica-

tion of the various kinds of plants, seedage, cuttings, grafting, budding, etc.; care of young greenhouse and nursery stock. *Required of Sophomores.* W. F. 2, W. 6, 7.

2. FRUIT GROWING—Commercial orchards; apple, peach, and other tree fruits suited to this State; the home orchard; viticulture; varieties, pruning, fertilization of orchards and vineyards, cultivation, marketing. Three hours, throughout the year; lectures and laboratory. Elective.

3. (a) FRUIT GROWING—Small fruits—strawberries, blackberries, raspberries, etc., soils, varieties, fertilization, cultivation marketing.

(b) OLERICULTURE—The principles of vegetable growing; the home vegetable garden; market gardening; management of cold frames and hot beds, transplanting, manures, fertilizers, forcing. 3 (a) and (b), two hours throughout the year. Elective.

4. (a) FLORICULTURE—Greenhouse construction and management; heating, ventilation, watering; the principal commercial greenhouse plants, packing and shipping.

(b) FORCING-HOUSES AND METHODS—Growing cut-flowers. 4 (a) and (b), two hours throughout the year. Elective.

5. (a) FORESTRY—This subject each year is becoming of increasing interest and importance. Forestry has to do with the rational consumption of forest wealth and provision for future needs. The course forms the basis of a general knowledge of the subject or as an introduction to more extended study. Two hours. Elective.

5. (b) LANDSCAPE GARDENING—A study of the principles of the subject with special reference to the selection and arrangement of trees and plants for the ornamentation of home and school grounds. Two hours. Elective.

6. (a) SPECIAL WORK AND PRACTICE—Handicraft and technical study for advanced students. The work will be arranged to suit the needs of the student.

(b) SPECIAL STUDIES AND REPORTS—To be taken in connection with and as supplementary to the preceding course, 6 (a) and (b). Two hours throughout the year. Elective.

7. THESIS—Experiment work. Two hours. *Required of Seniors with major in Horticulture.* Hours by arrangement.

8. (a) **POMOLOGY, SYSTEMATIC AND COMMERCIAL**—Description of fruits, classes, harvesting, packing, storing, marketing, exhibiting, scoring. Two hours. Elective.

8. (b) **PLANT BREEDING**—How varieties originate and are improved, heredity variation, cross pollination, selection. Elective.

### AGRONOMY.

MARTIN NELSON, *Professor.*

C. V. RUZEK, *Adjunct Professor.*

W. C. LASSETTER, *Assistant.*

Agronomy is the science of the field, the soil and its crops. The study of the soil is conducted from the standpoint of the fundamental principles of management of the soil for crop production and to afford opportunity for special study in particular fields of the subject. The study presupposes a fair understanding of the general principles of physics, chemistry, and plant physiology.

The study of crops is conducted from the standpoint of the fundamental biological and physiological principles underlying the growth, adaptation and improvement of plants, and economic and business management of the field and its crop. The study presupposes a general knowledge of the field of botany.

1. (a) **AGRONOMY**—The course comprises a study of crops—corn and small grains, cotton and other fibre crops, grasses, clovers, forage and miscellaneous crops. It consists of a study of types, varieties, strains, quality, market standards, the use of score cards, grading and identification. Stress is placed upon the staple crops. Lecture and laboratory work combined. Continues through both terms. M. W. F. 3, 4. *Required of Freshmen.*

1. (b) **AGRONOMY**—Continuation of 1 (a). M. W. F. 3, 4. *Required of Freshmen.*

2. (a) **SOIL PHYSICS**—This course comprises a study of the nature, origin, formation, and classification of soils; soil moistures and the methods of conserving it; movements of soil water; its relation to color, light, and temperature; objects and method of use of farm implements as related to the various soils and crops; cultivation and drainage as affecting soil moisture, temperature,



aeration, root development, and the supply of available plant food. Three lecture periods. M. W. F. 1. *Required of Sophomores.*

3. (a) SOIL PHYSICS—Laboratory Course—Supplementary to course 2 (a). Designed to prepare the student to better understand the nature of soil, the methods of treatment of soil and the effect of these methods upon aeration, texture, temperature, moisture, water holding capacity, and crop production. The work comprises the determination of such constants as specific gravity, pore space, capillarity, organic matter, etc., of the various types of soils; mechanical analysis of soils; soil survey and soil mapping. Two three-hour periods. M. F. 5, 6, 7. *Required of Sophomores.*

4. (a) FARM CROPS—This course embraces a study of staple and miscellaneous farm crops; methods of cultivation, seeding, harvesting, storing, and marketing; testing, selecting, and improvement; combating weeds. Five hours. M. T. W. Th. F. 1. *Required of Juniors.*

4. (b) FARM CROPS—Continuation of 3 (a). Five hours. M. T. W. Th. F. 1. *Required of Juniors.*

5. (a) SOIL FERTILITY—A study of conditions governing productivity and exhaustion of soils; maintenance of fertility; soil bacteria, organic matter, green manures, farm manures, and commercial fertilizers; effect of crops and fertilization; rotation of crops and treatment of soil; soil building; a permanent agriculture. Three hours. Elective.

5. (b) SOIL FERTILITY—Laboratory course in soil chemistry. Supplementary to 5 (a). Two periods. Elective.

6. (b) FARM DRAINAGE—This course comprises the study of drainage and irrigation relative to the farm; the mapping, planning, and laying of drainage systems and rice farms; field work, including the care, adjustment, and use of instruments used in this work. Recitation and laboratory; three periods per week.

2 (a) *prerequisite.* Elective.

7. (a) SPECIAL JUDGING—Advanced judging of cotton, corn, rice, and grains. Lectures, laboratory exercises, and assigned reading. For advanced students and graduates. Courses 1 and 3 *prerequisite.* Hours to be arranged. Elective.

8. (b) PLANT BREEDING—Principles and methods of plant breeding, selection and improvement as applied to farm crops.

Lectures and assigned readings. For advanced students and graduates. Courses 1 and 3 *prerequisite*. Two periods. Hours to be arranged. Elective.

9. (a) FARM MANAGEMENT—Systems of farming—intensive and extensive, specialized and general; arrangement, organization, and equipment for special systems; administration and cost of production. For advanced students and graduates. Three hours. Elective.

10. (a) FARM MECHANICS—A study of farm implements and farm machinery; adaptation, use and care of same; engines, motors and their application to the farm; labor-saving devices; building fences and roads. Three laboratory periods. Elective.

10. (b) FARM MECHANICS—Rural architecture—arrangement of and designs for buildings with special reference to materials, methods of construction, durability, and conveniences; water ventilation and heating systems. Three periods. Elective.

11. THESIS—Special investigation of subjects in the field of agronomy. *Required of students with major in agronomy*. Hours to be arranged.

## PLANT PATHOLOGY.

J. LEE HEWITT, *Professor*.

JOHN S. STAHL, *Adjunct*.

H. E. STEVENS, *Assistant*.

1. (b) MYCOLOGY—Morphology of typical fungus forms and the classification of fungi, including a brief consideration of the allied groups of lower plants. Four hours. To be arranged.

2. (b) PLANT PATHOLOGY—Mycology and plant physiology are *prerequisite*. The diseases of plants caused by cryptogamic parasites and by unfavorable environment. Especial attention is given to conditions inducing disease and to reaction of the diseased organism. Four hours. Second term.

3. (b) DISEASES OF TREES—Mycology is *prerequisite*. The diseases of economically important forest trees, the causes of decay in timber. Three hours. Second term.

4. AGRICULTURAL BACTERIOLOGY—Morphology and physiology of bacteria, cultural and microscopic technique. Bacteria in relation to diseases of plants and animals, and to dairying. Three hours.

11. (a) ELEMENTARY PLANT HISTOLOGY AND PHYSIOLOGY—Should be preceded by general botany or morphology. A study of plant tissues and organs and their functions from the standpoint of agriculture. Fundamental to work in crops. Three hours. First term. *Required of Freshmen.*

11. (b) PLANT PHYSIOLOGY AND ECOLOGY—A continuation of course 11 (a). The study of plant growth and reproduction as influenced by environment. This course, like the last, is treated from the economic standpoint, touching such subjects as plant propagation, forcing, etherizing, hybridizing, the principles of plant growth. The laboratory work will be with a large number of living plants under the direct control of the students. Three hours. Second term. *Required of Freshmen.*

12. (a) PHYSIOLOGY AND ECOLOGY OF FOREST PLANTS—Plant physiology is *prerequisite*. Study of typical forest societies, including physiological facts of special bearing on forest conditions. Three hours. First term.

13. (b) DESCRIPTION AND CLASSIFICATION OF ECONOMIC PLANTS—A brief systematic course dealing with common crop plants and weeds; seed impurities. Two hours. Second term.

14. RESEARCH WORK—Will be assigned to students with adequate preparation. Hours to be arranged, not less than three credit hours.

### ANIMAL HUSBANDRY.

P. N. FLINT, *Professor.*

JAMES YOWELL, *Adjunct.*

CARL CHRISTOPHER, *Assistant.*

1. (a) TYPES AND BREEDS OF FARM ANIMALS—The leading breeds of horses, cattle, sheep, swine, and poultry are studied as to their origin, distribution, adaptability, and leading characteristics. One class period each week is devoted to stock judging. Three hours. T. Th. and S. 1. *Required of Freshmen.*

1. (b) FEEDS AND FEEDING—Study of the composition of feeds, digestible nutrients in feeds, compounding of rations for the various classes of farm animals, preparing feeds. Also a study of the most approved methods of feeding and management of the various classes of farm animals. Two hours. T. Th. 1. *Required of Freshmen.*



2. (a) LIVESTOCK BREEDING—The laws of heredity, variation, atavism and correlation are given special attention. Prepotency and fecundity and the influences that effect them are discussed. In-and-in breeding, line breeding, cross breeding, grading, and the formation of breeds are taken up in detail. Two hours. M. W. F. 2. *Required of Sophomores.*

3. ANIMAL NUTRITION—Composition of the animal body, and composition and digestibility of foods, the theory and practical economy of rations for growing, fattening, wool production, etc. *Prerequisites: The required courses.* Elective.

4. BEEF PRODUCTION—A study of the most economical methods of producing beef cattle. Production of baby beef, long and short fed beef, feeding grain in connection with pasture. Elective.

5. FEEDING, CARE, AND MANAGEMENT OF DAIRY CATTLE—A study of modern methods of feeding, caring for, and managing dairy cattle.

6. PORK PRODUCTION—Study of the most economical methods of growing and finishing pigs, of the bacon and lard type, for market. Advantage of grazing crops in pork production. Elective.

7. MUTTON AND WOOL PRODUCTION—A thorough study of the most economical feeds, and conditions influencing the production of mutton and wool. Elective.

8. FEEDING, CARE AND MANAGEMENT OF HORSES—Study of the most economical feeds for maintenance, light, medium and heavy work. Feed for stallions, brood mares, and colts, and fattening for market. Management of stallions, mares, and colts, breaking, training, etc. Elective.

9. MANAGEMENT OF PURE BREED OF LIVESTOCK—Study of establishing and maintaining stock farms in Arkansas. Pastures, lots, barns, stalls, feed boxes, etc. Elective.

10. STOCK JUDGING—In addition to text-book studies, practical exercises will be given on the use of the score card in judging the various types and breeds of farm animals. *Prerequisite: Animal Husbandry 1a.* Elective.

11. POULTRY—Study of the most economical methods of housing, feeding, and management of poultry. Study of breeds their distribution and adaptability.

## VETERINARY SCIENCE.

J. F. STANFORD, *Professor.*R. M. GOW, *Adjunct Professor.*

1. (a) VETERINARY SCIENCE—This course comprises a general outline of veterinary anatomy and physiology, diseases of animals and their treatment, and simple surgery. Three hours. T. Th. S. 1. *Required of Sophomores.*

1. (b) VETERINARY SCIENCE—This course consists of anatomy and physiology of the domesticated animals; dentition and the determination of age by the teeth; lameness—its causes, prevention, and cure; ventilation and disinfection; contagious diseases and diseased processes; methods of restraint and anesthetics surgery. T. Th. S. 1. *Required of Sophomores.*

## DAIRYING.

C. H. TOURGEE, *Professor.*

1. (b) DAIRYING—The composition of milk; methods of handling for butter and cheese making; condensories; city supply; milk testing; butter making. Two laboratory and two recitation periods per week. M. T. 2, 6 and 7. Four hours. *Required of Sophomores.*

2. (a) DAIRY BACTERIOLOGY—First semester. Application of the principles of bacteriology in the care of milk, and in butter and cheese making. Two lectures per week. Elective. *Required of Special Dairy Students.*

3. (a) PREPARATION OF ICE CREAM AND ICES—Eighth semester Dairy Course and elective Agricultural Courses. A study of the preparation of ice cream, sherbets, and ices, made on a private or commercial scale. Both lectures and laboratory. Three hours credit. One recitation and one four-hour laboratory period. Elective. *Required of Special Dairy Students.*

4. (a) CITY MILK SUPPLY—The value of milk as a food; the production and control of market milk; prevention of contamination; pasteurizing; bottling and delivering milk; certified, modified, pasteurized, and standardized milk. Two hours. Elective.

5. (a) MILK TESTING—A thorough study of the Babcock test for all dairy products; the tests for the acidity of the milk; the casein test; the lactometer and the detection of adulterations. Three hours. Elective.

6. (a) ADVANCED BUTTER MAKING—The composition of milk and butter; separation of milk by gravity and centrifugal force; pasteurization; the use of different kinds of pure culture; cream ripening; churning; working, printing, packing, and marketing butter. Five hours. *Elective*.

7. (a) FACTORY MANAGEMENT—Eighth semester Dairy Course and elective Agricultural Courses. Consists of the location, organization, construction, drainage, and ventilation of factories, the treatment of the by-products, and creamery refrigeration, thus qualifying a student to superintend or manage a large factory or dairy establishment. It is advisable for students to put in the laboratory during vacation or when work can be done during consecutive days. *Prerequisite: Dairy 14*. Four hours credit. Lecture, two hours, and laboratory four hours per week.

8. (a) SCORING BUTTER AND CHEESE—Lecture and practice in judging butter and cheese. One hour. *Elective*.

9. (a) INVESTIGATION AND THESIS—Experiment station work in dairying. Subject to be arranged.

All of above courses required of special dairy students except 4 (a).

## AGRICULTURAL CHEMISTRY.

R. C. THOMPSON, *Professor*.

1. (b) AGRICULTURAL CHEMISTRY—A general discussion of chemistry applied to the farm, including the chemistry of plant and animal life. Second semester. Two hours. M. W. 1. *Required of Sophomores*.

2. AGRICULTURAL CHEMISTRY—This course will consist of lectures and laboratory work on fertilizers, insecticides and fungicides, dairy products, concentrated feeds and feeding stuffs. Any or all of this course is elective with hours to be arranged. *Elective*.

## DEPARTMENT OF EXTENSION.

G. A. COLE, *Superintendent*.

H. S. MOBLEY, *Special Agent U. S. Dept. Agriculture*.

J. M. WILSON, *Assistant*.

J. M. BORDERS, *Assistant*.

The Department of Extension has been organized to conduct various lines of work among the farmers of the State. Up to



the present time the principal efforts have been farmers' institutes, boys' corn clubs, and correspondence courses. The superintendent arranges dates and addresses meetings of farmers at various points throughout the State. The corn club work is carried on by a representative of the department visiting the various counties and organizing, principally among the school children, clubs to grow corn for the annual contest. Any boy can join the club by sending his name to the College of Agriculture. The correspondence courses are conducted through the mail.

The object of the correspondence course is to afford an easy means by which the student may pursue a systematic course of study at his own home. Experience has clearly shown that there are many people who desire an agricultural education, and who cannot, for various reasons, attend college. These courses are designed to meet the wants of such persons and are especially arranged for the farmer, the boys and girls of the farm, the gardener, the fruit grower, the teacher, and, in fact, any person who desires to pursue a course along any line of agriculture.

It is hoped that classes will be organized in the locals of the Farmers' Unions and in other rural organizations. If such classes are organized we hope to be able to visit these classes from time to time and give personal instruction.

HOW THE COURSES WILL BE GIVEN—These courses will be given by means of text-books and pamphlets. The pamphlets will be furnished free and the student will be expected to buy the books.

METHOD OF INSTRUCTION—Upon request an application blank is forwarded to any address. The name of the applicant is registered for course upon the receipt of the application, and literature and necessary instructions will be sent. When the text-book is received, the first lesson is studied and the questions on that lesson answered without referring to the book, and mailed to the instructor who will read and correct any error in the answer and then return to the student for correction. After further study the answers are prepared the second time and the instructor will make the final changes and return, thus completing the first lesson. In no case will the second list of questions be sent before the first list is returned.

**COST**—The instruction is entirely free. Each student will be required to provide a text-book and pay postage to and from the University. The books will be furnished to all students of this course at a reduced price direct from the publishers. The books are by the best authorities on the respective subjects and will make a good addition to the library that every farmer should have in his home.

## CORRESPONDENCE COURSES.

### Outline of Courses and Books Used.

**COURSE I. ELEMENTARY AGRICULTURE**—This course is intended to prepare teachers for examination for certificates and fit them to give instruction effectively in nature study and agriculture in the public schools of the State. Elements of Agriculture, by Warren. Price \$1.25.

\***COURSE II**—Soils and How to Treat Them. Brook's Agriculture, Vol. 1. Price \$1.25.

\***COURSE III**—Manures and Fertilizers. Brook's Agriculture, Vol. 2. Price \$1.25.

**COURSE IV**—Farm Management, by Gard. Price \$1.80.

\***COURSE V**—Animal Husbandry. Brook's Agriculture, Vol. 3. Price \$1.25.

**COURSE VI**—Field Crops. The Cereals of America; Forage and Fiber Crops, by Hunt. Price \$1.75 each.

**COURSE VII**—Fruit Growing, Principles of, by Bailey. Price \$1.50.

**COURSE VIII**—Vegetable Gardening, Principles of, by Bailey. Price \$1.50.

**COURSE IX**—Home Floriculture, by E. E. Rexford. Price \$1.00.

**COURSE X**—Dairying, the Business of, by Lane. Price \$1.25.

\*The three books by Brooks may be obtained, by ordering at the same time, for \$3.50.

# AGRICULTURAL EXPERIMENT STATION

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## Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,  
*President.*

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,  
*Director and Entomologist.*

ROBERT ROBSON DINWIDDIE, M. D., V. S.,  
*Consulting Pathologist and Bacteriologist.*

ERNEST WALKER, B. S. A.,  
*Horticulturist.*

MARTIN NELSON, B. S. A., M. S.,  
*Agronomist.*

JOSEPH LEE HEWITT, B. S.,  
*Plant Pathologist.*

PAUL N. FLINT, B. S., M. S.,  
*Animal Husbandman.*

J. F. STANFORD, V. S.,  
*Veterinarian.*

CARL H. TOURGEE, B. S. A.,  
*Dairyman.*

R. C. THOMPSON, B. S.,  
*Chemist.*

PAUL HAYHURST, A. B.,  
*Assistant Entomologist.*

R. M. GOW, D. V. M.,  
*Assistant Veterinarian.*

JAMES YOWELL, B. S. A.,  
*Assistant Animal Husbandman.*

CHARLES V. RUZEK, B. S. A.,  
*Assistant Agronomist.*

W. C. LASSETTER, B. S. A.,  
*Assistant Agronomist.*

J. L. STAHL, B. S. A.,  
*Assistant Plant Pathologist.*



H. E. STEVENS, B. S. A., M. S.,

*Assistant Plant Pathologist.*

GEO. G. BECKER, B. S. A.,

*Assistant Entomologist.*

CARL CHRISTOPHER, B. S. A.,

*Assistant Animal Husbandman.*

L. L. WOOTTON, A. B.,

*Executive Clerk.*

THE OFFICE OF THE DIRECTOR OF THE EXPERIMENT STATION is in the new Agricultural Building, a brick structure of two stories and a basement. It has a well-lighted laboratory room in the basement, two large lecture rooms, the office of the Entomologist, and the soil laboratory on the first floor, and the office of the director, the agronomist, the class-room and laboratory of field crops, and the library on the second floor. It is a well-arranged and attractive building.

THE DEPARTMENT OF ENTOMOLOGY has its office and laboratories on the first floor of the Agricultural Building. Investigations are conducted by this department in life histories of insects injurious to agriculture and horticulture, and methods of exterminating such insects. Orchard nursery inspection is a feature of the work.

THE DEPARTMENT OF BACTERIOLOGY AND ANIMAL PATHOLOGY has its office and laboratory in the Old Experiment Station Building. The department conducts thorough investigation and research relative to cause and character of animal diseases and means of combating them.

THE DEPARTMENT OF HORTICULTURE has its offices in the Experiment Station Building. It has a greenhouse, in which forcing experiments and other experiments in plant propagation are carried on. The orchards and grounds in charge of this department contain many varieties of apples, pears, plums, cherries, and small fruits, which serve as material for experiments with varieties, methods of culture, pruning and spraying.

THE DEPARTMENT OF AGRONOMY has its office on the second floor of the Agricultural Building. This department carries on investigations with farm crops, testing and breeding new and pure varieties of cotton, corn, grains, grasses for hay, pasture and cover crops, and other agricultural products. It also carries

on experiments in soil fertility and the management of soils for different crops. The work of this department is conducted on the station farm and at the substations. A special feature is the work with cotton and corn at the substations of the southern part of the State.

THE DEPARTMENT OF PLANT PATHOLOGY has its office and laboratory in the Experiment Station Building. This department carries on work of investigation of bacterial, fungus, and all plant diseases with reference to their nature, cause of development, and means of combating and eradicating them. The department is equipped with excellent apparatus for carrying on its investigations.

THE DEPARTMENT OF ANIMAL HUSBANDRY is located in the Dairy Building. This department carries on investigations in feeding, breeding, and care of farm animals, including poultry. Its special feature is a well-selected lot of hogs, representing the various breeds, on which various feeding and breeding tests are made.

THE DEPARTMENT OF VETERINARY SCIENCE is located in the Experiment Station Building. State inspection for contagious diseases of animals and the eradication of cattle tick is supervised by this department, and the best means of checking the spread of outbreaks of such diseases and stamping them out.

THE DAIRY DEPARTMENT is located in a three-story stone building equipped with the most improved dairy machinery and well equipped laboratories. The department conducts a model dairy on an economic basis.

THE DEPARTMENT OF CHEMISTRY is located in the Experiment Station Building. Its laboratories are fitted with the most improved modern apparatus. This department carries on investigations along the lines of animal and plant life and soil chemistry.

# THE CONSERVATORY OF MUSIC AND ART

## Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,  
*President.*

HENRY DOUGHTY TOVEY, DIRECTOR,  
*Piano, Organ, Theory.*

MARY CUMMINGS BATEMAN,  
*Voice.*

DEWITT DEPUE,  
*Violin and Conductor of the University Orchestra.*

SUE BELLE WOOD,  
*Piano.*

THEODORE MACMILLAN BLAKE,  
*Piano and History of Music.*

BLANCHE HOYT,  
*Accompanist for the Department and the Glee Club.*

GENEVIEVE MOCK, MABEL BELL, HELEN ADAMS, and  
BLANCHE HOYT,  
*Assistants.*

WILLIE VANDEVENTER-CROCKETT,  
*Elocution and Physical Culture.*

MARTHA HUDSON WHITE,  
*Assistant in Elocution and Physical Culture.*

ELIZABETH GALBRAITH,  
*Art.*

EVELYN METZGER,  
*Assistant in Art.*

## PURPOSE.

The fundamental idea of the management has been to make the Conservatory of Music and Art complete and thorough in every respect, and to advance the pupils rapidly, yet carefully. In other words, the standard of efficiency must be so high that a certificate of study and ability granted here will possess a value recognized far and wide, and that pupils will choose to study here in preference to going to the great cities.



It has placed true artistic merit above other considerations. The courses are planned on broad lines, with a view to fitting the pupils for careers as artistic concert performers and teachers.

### TUITION AND OTHER FEES.

The tuition fees are based upon a term of eighteen weeks, except where otherwise stated. Tuition must be paid at the beginning of the term and receipt presented before taking lessons. A higher rate of tuition will be charged when not paid in advance and when the pupil receives instruction for part of a term only.

#### Music.

Piano .....	\$22 50
Voice, Violin .....	22 50
Harmony (in class) .....	5 00
Musical History (in class) .....	5 00
Organ practice (per hour) .....	20
Piano one-half time .....	12.50
Use of piano for practice, one hour daily:	
First hour .....	2 50
Each additional hour .....	1 25

A fee of \$1.50 is charged each pupil. Upon payment of this fee the pupil will receive a ticket which will admit to not less than two Artists' Recitals given by visiting artists during the year.

A fee of \$5.00 will be charged for diplomas.

A fee of \$1.00 will be charged for certificates.

#### Elocution.

Private lessons (per term) .....	\$22 50
Private lessons (per month) .....	6 00
Class lessons free to University students.	

#### Art.

A fee of \$2.00 is required of all Normal students.

Academic class by term .....	\$22 50
By month in advance .....	6 00

### Physical Culture.

The regular classes in physical culture are free to University students.

### RULES AND REGULATIONS.

All arrangements must be made at the director's office (University Hall, Room 26). The tuition is paid strictly in advance. If it is paid later, a higher rate is charged.

Pupils may enter at any time, but must continue their study until the end of the term.

Pupils wishing to take the regular advanced courses for a certificate or diploma must enter the department not later than the opening of the second term and continue without interruption until the close of the school year.

Lessons lost in consequence of the absence of the pupil will not be made good by the University, except in case of protracted illness, when due notice in writing has been given to the director.

All lessons lost in consequence of the absence of the instructor will be made good.

No pupil is allowed to miss lessons without sufficient cause.

Upon leaving, each pupil may receive a testimonial in which the time spent at the institution, diligence in study, and progress will be faithfully stated.

Reports showing attendance and improvement are issued every month.

Pupils are not allowed to take part in any public entertainment without the knowledge and consent of the director.

No money will be refunded on class lessons.

No reduction will be made except in cases of long and protracted illness of the student herself, when the loss will be equally shared with the patron. There will be no reduction for time lost at Christmas, nor during the first four or last six weeks of the term.

Applicants for diplomas and certificates must have one year's study on some other instrument.

Applicants for certificates and diplomas will be expected to attend the series of lectures and concerts given by the director in his studio.

For further information address the director.

Write to the director for the Department of Music and Fine Arts Bulletin.

From *Lyceumite and Talent*, Chicago, Ill.:

"One of the handsomest booklets that has come to our attention lately is that of the University of Arkansas Conservatory of Fine Arts. The front cover design was designed by Jessie Lee, one of the students of the University, we believe. This booklet is printed on fine Strathmore stock, deckle-edge, and the illustrations tipped-in in a very artistic manner."

#### SPECIAL ADVANTAGES OF CONSERVATORY INSTRUCTION.

Aside from the opportunity of instruction by teachers of recognized ability, the advantages of conservatory over private instruction are so manifest that we deem it hardly necessary to enumerate the many points in its favor.

It is almost impossible for the private teacher to give the required attention to the different theoretical branches, such as harmony, counterpoint, composition, ear training, etc., which are absolutely essential to a thorough musical training; at the same time, the lectures on musical history, the public recitals, as well as the close association with a large number of earnest students, create a certain musical atmosphere which is a great aid and stimulus to an increased effort on the part of the pupils. Students are required to attend lessons regularly; teachers have no business matters to occupy their time, and can concentrate their full attention on the musical education of their pupils.

#### RECITALS.

Especial attention is called to the recitals of both pupils and faculty, of which a number are given each year, and which have won the reputation for artistic excellence. The advantage derived from these can not be overestimated.

At the pupils' recitals, all pupils are privileged and expected to appear as their talents and advancement may warrant. Not



only does this offer them a greater incentive to put forth their best efforts, but it helps them to overcome the nervousness which often mars the performance of students who have not the opportunity of performing frequently before an audience. The recitals given by the members of the faculty have attracted especial attention, and, needless to say, are a further aid to pupils.

### ORCHESTRA.

MR. DEPUE.

Students of the violin and other orchestral instruments will, as soon as possible, be admitted to membership in the University Orchestra, which takes part in concerts. This practice is a decided advantage, as well as a source of pleasure to the student. Orchestral and chorus practice is free to students of the University.

During the season 1910-11 the University Orchestra of 30 pieces gave four successful concerts.

### PIANO.

MR. TOVEY, MISS BLAKE, MISS WOOD.

COURSE OF INSTRUCTION—It has not been deemed advisable to adopt any set of studies to be used arbitrarily, but rather to select a course to suit the needs of the individual pupil. A general outline of the plan of study will be given. Exercises without notes are used for the purpose of acquiring control over positions and motions, firmness, pliability, and elasticity. The aim is to develop the student's power of musical conception, to gain control over all technical resources; and finally, to adapt these resources to artistic ends.

PREPARATORY GRADE—National Graded Course Books I and II; simple exercises for wrist development, major scales, broken chords and arpeggios. Sonatinas by Diabelli, Clementi, Kuhlau, Lichner; studies from Koehler, Biehl, Loeschorn, Czerny, Gurlitt; salon pieces; preparatory octave work. Special care will be taken in this elementary instruction, as herein lies the foundation of the future pianist.

Pupils passing from the Preparatory to the Intermediate Grade must first pass a written examination in the rudiments of music and be able to play the major scales at the metronome mark 120, 4 notes to a beat.

INTERMEDIATE GRADE—Selected technics from Tausig, Krauss, Heller, Loeschorn, Op. 66; Czerny, Op. 299; sonatas by Mozart, Haydn, Beethoven, Mendelssohn's songs without words; Smith's and Low's Octave Studies; duets for piano and piano and violin; Bach's Little Preludes and Fugues.

In passing from the Intermediate to the Advanced Grade, pupils must be able to play major and minor scales, similar and contrary motion at 144—4 notes to a beat. Arpeggios, major and minor, at 120—4 notes to the beat; octaves at 80—4 notes to the beat.

ADVANCED GRADE—Extended scales in various accents; diminished and dominant seventh, arpeggios; Etudes from Czerny, Op. 740; Heller, Op. 45; Cramer; Clementi Gradus ad Parnassum; Kullak Octave Studies; Bach Suites, Preludes and Fugues; Chopin, Op. 10 and 25; Valses, Nocturnes, Polonaises, Preludes; Beethoven Sonatas; pieces by Mendelssohn, Schumann, Schubert, Liszt, Grieg, MacDowell, and other composers, classic and modern.

Pupils of advanced grade who have obtained the required proficiency may be considered candidates for the diploma granted by the department, and will be ranked as Seniors.

### Piano Practice.

Pupils can arrange at a very moderate expense to do their daily practicing at the University, in case this should prove desirable.

### PIPE ORGAN.

MR. TOVEY.

The aim of this department is to fit pupils for holding church positions. To any one expecting to make music a profession, the knowledge of organ playing will be found especially helpful.

The preliminary organ work is based on Ritter's Organ School and Thayer's Pedal Studies. Then follow Buck's Study in Pedal Phrasing, Bach's Little Preludes and Fugues, and selections from the best composers for organ, such as Guilmant, Lemare, Tours, Hollins, Rheinberger, and others.

Mr. Tovey is a colleague of the American Guild of Organists.

## VIOLIN.

MR. DEPUE.

The violin is by many considered the most difficult of instruments, and requires careful and conscientious study. Much depends on the beginning. Often a pupil begins to study with an inexperienced teacher, or one who does not concentrate his attention on this difficult instrument, and consequently falls into bad habits of position, bowing, or technique, that make advancement difficult, and are, in many cases, almost impossible to overcome. The pupil is taken from the beginning and carefully brought through the most difficult phases of the violin. In addition to his exercises, he is, as soon as possible, given pieces within his capacity.

The course of study includes the following:

FIRST AND SECOND GRADES—Studies by Dancla and Dont.

THIRD AND FOURTH GRADES—Studies by Kayser, Kreutzer, and Schradick.

FIFTH AND SIXTH GRADES—Kreutzer, Fiorillo, and Rode.

## VOICE.

MRS. BATEMAN, *Head of the Department.*

In this branch special stress is laid on the control of the breath, accuracy of tone, and distinct articulation; next, the development of mind, body, and voice, coöperately. There is study of intervals, scale building and sight reading. As early as practicable the student is trained in phrasing. The exercises used are those best adapted to the needs of the pupil. Songs of the best American, English, German, French, and Italian composers are used according to the progress of the pupil. There is study of opera and oratorio.

The purpose of the instruction in this department is the correct production of tone and the building and development of the voice according to the old Italian method as used by the greatest artists of olden and modern times. The course includes studies in sustained singing and agility, explanations of the mechanism of the voice as far as is necessary, correct breathing and position in singing, chest development.



The method is such as to develop and strengthen the voice, the aim being beauty and strength of tone, then facility of execution. Special attention is paid to the particular needs of each individual with exercises and studies carefully selected according to the requirements of each voice.

### LIST OF VOCAL MUSIC USED.

#### PREPARATORY GRADES—

Marchesi's Individual Exercises.

Panofka's Vocalises; Op. 85.

Studies for sight reading and easy songs.

#### INTERMEDIATE GRADES—

Concone, Op. 12.

Concone's Lessons, Op. 17, and third and fourth grade songs, including oratorio.

Marchesi's Individual Exercises.

Panofka's Vocalises, Op. 81.

Sieber's Vocalises, Op. 94.

#### ADVANCED GRADES—

Lamperti's Studies in Bravura.

Oratorio and operatic arias and difficult songs in English, French, German, and Italian.

### HARMONY (Four Terms).

MR. TOVEY.

FIRST TERM—Keys, scales, and signatures; intervals; formation of triad; chord connection; simple part writing; chords of the seventh and their inversions; altered and augmented chords.

SECOND TERM—Modulation.

THIRD TERM—Modulation continued; suspensions; passing chords; unharmonic notes; organ point; harmonizing melodies.

FOURTH TERM—Keyboard work; playing from figured basses; double chants, and chorals. *Text-books*: Stephen A. Emery's *Harmony*; *Kreb's Manual of Modulation*.

### SIGHT READING.

Due prominence is given to the training in sight reading. Playing from memory is cultivated. Much attention is given to

duo and quartette playing, and ensemble work. The opportunity of hearing good music is earnestly coveted for our pupils.

### TEACHER'S COURSE.

MR. TOVEY.

Those desiring to become teachers will be given special preparation when they are sufficiently advanced in their branches.

### MUSICAL HISTORY (Two Terms).

MISS BLAKE.

FIRST TERM—General history, development and influence of music among ancient peoples. Early Christian music. Polyphonic music. Rise of dramatic and instrumental music. Development of the different musical instruments.

SECOND TERM—Development of the opera and the oratorio. The romanticists. Modern music and musicians. *Text-books:* W. S. B. Matthew's History of Music, Upton's Standard Operas.

### COURSE IN ACCOMPANIMENT.

Mr. Tovey also offers a course in post-graduate work and a course in accompaniment.

In connection with the study of opera, the Victor Talking Machine is used. Concerts are given twice a month, each program being confined to an opera. The story of the opera is told, and the records of the world's greatest singers are played.

### CERTIFICATES.

In replying to the many inquiries regarding the period of study required for graduation, it must be said that it is difficult to answer this question, as all depends upon the ability and application of the student. Some will accomplish in one year what it takes others two or three times as long to complete. The term varies from four to six years. A graduate must be able to give acceptably a recital in the chosen branch, besides passing examinations in Harmony and in History of Music. Diplomas are conferred upon graduates. As the standard set in this department is that required by the best conservatories of the coun-

try, a certificate obtained under these conditions has a meaning. A fee of five dollars is charged for the diploma granted by the Department of Music of the University of Arkansas.

THE REQUIREMENTS FOR A DIPLOMA IN THE DEPARTMENT OF MUSIC are such as are outlined for the course in Music, English, Modern Languages, History, or Economics. No definite number of hours in music are required, but the applicant will be entitled to a diploma whenever the director is satisfied that the applicant possesses sufficient knowledge, technique, and ability, and has completed the theoretic course, regardless of the time required for its completion.

The course as required is as follows:

Two years' College English.

Two years' Modern Language.

One year's History 2, or Economics 1 (optional).

One year's study of some other instrument.

Two years' Harmony.

One year's History of Music.

The entrance requirements for English, Modern Language, History, and Economics are the same as for the same studies in any other course.

Entrance requirements to the Music Course for pupils desiring to be classed as Freshmen, and working toward graduation from the department, are as follows:

Thirteen units.

Required English 3 units (admitting to English 1).

History 1 unit (admitting to History 2).

Elective 9 units including Music. The number of credits to be given for Music determined by the director.

THE REQUIREMENTS FOR A TEACHER'S CERTIFICATE ARE;

One year's History of Music.

Two years' Harmony.

The ability to play or sing, and to give a recital.

One year's study of some other instrument.

There are no entrance requirements for pupils who wish to take special music.



Only in exceptional cases will a student be allowed to graduate after but one year in the Conservatory of Music of the University of Arkansas, and that only when the previous training has been of the best and the pupil shows natural ability of high order.

Only pupils receiving diplomas will be classed as Seniors in the Department of Music and Art.

Enrollment from September 14, 1910, to February 1, 1911:

Piano .....	102
Organ .....	6
Violin .....	18
Musical History .....	21
Harmony .....	37
Elocution .....	103
Voice .....	35
Physical Culture.....	70
Art .....	78

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The studios of the department are on the third floor. The studios of the director have recently been redecorated by the Tobey Furniture Company, of Chicago. Several new Bush and Gerts pianos have been placed in the studios. The Bush and Gerts piano is used exclusively by Mr. Tovey for concert and teaching purposes.

Some programs given by the department:

## FACULTY RECITAL

FRIDAY, NOVEMBER 4, 8:00 P. M.

SUE BELLE WOOD.....	Pianist
THEODORE MACMILLAN BLAKE.....	Pianist
MARY CUMMINS BATEMAN.....	Soprano
WILLIE VANDEVENTER-CROCKETT.....	Reader
MARTHA HUDSON WHITE.....	Reader
DEWITT DEPUE.....	Violinist
HENRY DOUGHTY TOVEY.....	Pianist

## PROGRAM

Concerto in C minor.....	<i>Sinding</i>
Andante	
Miss Blake	
(Mr. Tovey at second piano)	
Elizabeth's Entrance (Tannheuser).....	<i>Wagner</i>
Mrs. Bateman	
Court Scene (Merchant of Venice).....	<i>Skakespeare</i>
Mrs. White	
Introduction and Rondo Capriccioso.....	<i>Saint-Saens</i>
Mr. DePue	
Concerto in G minor.....	<i>Saint-Saens</i>
Andante sostenuto	
Allegro scherzando	
Presto	
Mr. Tovey	
(Orchestral parts on second piano played by Miss Wood)	
The Young King.....	<i>Oscar Wilds</i>
Mrs. Vandeventer-Crockett	
The Minstrel.....	<i>Hildaeh</i>
Mrs. Bateman	
(Violin obligato played by Mr. DePue)	
Gypsy Airs.....	<i>Sarasate</i>
Mr. DePue	

## RECITAL

GIVEN BY

HENRY DOUGHTY TOVEY, Pianist

DeWITT DePUE, Violinist

EDWIN CLAIR TOVEY, Baritone

FRIDAY, DECEMBER 9, AT 3:30 P. M.

## PROGRAM.

Sonata in G minor.....	Schumann
Sehr rasch wie möglich	
Andante	
Scherzo	
Requiem.....	Mr. Tovey
Since We Parted.....	Homer
Love Is A Bubble.....	Allitsen
Mr. Edwin Clair Tovey	Allitsen
Faust Fantasie.....	d'Alard
Mr. DePue	
Sacred and Profane Dances.....	Debussy
Arabesques on the Blue Danube Waltzes.....	Strauss-Schulz-Evler
Mr. Tovey	
Song of Faith.....	Chaminade
A Love Note.....	Tovey
'Twas In A Land.....	Chaminade
Mr. Edwin Clair Tovey	
Mazurka.....	Musin
Souvenir.....	Drdla
Mr. DePue	

## TWO-PIANO RECITAL

GIVEN BY THE PUPILS OF

MR. HENRY DOUGHTY TOVEY

WEDNESDAY, DECEMBER 14, AT 3:30 P. M.

## PROGRAM.

Shepherds and Shepherdesses.....	Godard
Helen Adams	
Duo Symphonique (for two pianos).....	Godard
Allegor Motlo	
Moderati quasi Andante	
Mrs. O. D. Wannamaker	
Song—Carmena.....	Wilson
Genevieve Mock	
Morning (for two pianos).....	Chaminands
Emil Seidel	
Evening (for two pianos).....	Chaminade
La Sevillane (for two pianos).....	Chaminade
Blanche Hoyt	
Violin—Polish Dance.....	Wieniawski
Alice Dodge	
Pas Des Cymbals (for two pianos).....	Chaminade
Josephine Williams	
Song—My Heart Sings.....	Chaminade
Mrs. Ernest Hall	
Concerto in A minor.....	Greig
First Movement	
Genevieve Mock	
Mr. Tovey at the second piano	Bush & Gerts piano used

"The two-piano program given by the pupils of Henry Doughty Tovey are worthy of Berlin, Paris, or New York.—MUSICAL CUORIER, New York, 1909.



## PIPE ORGAN RECITAL

GIVEN BY PUPILS OF

MR. TOVEY

ASSISTED BY

MR. DeWITT DePUE, Violinist

CHRISTIAN CHURCH

SATURDAY, DECEMBER 10, AT 3:00 P. M.

## PROGRAM.

Improvisation .....	Hal
Eunice Schoolfield	
Andante .....	Deshayes
Jennie Lewis	
Melody in A flat.....	Shelley
Josephine Williams	
Festive March.....	Rogers
Helen Adams	
Adoration (by request).....	Borowski
Mr. DePue	
March .....	Huhn
Melody in D flat.....	Faulkes
Gertrude Watson	
Romance sans Paroles.....	Taschaikowsky
Josephine Williams	
Thanksgiving March.....	Calkins
Helen Adams	
Hosanna .....	Wachs
Eunice Schoolfield	
Old Folks At Home (by request).....	Foster-Tovey
Humoreske .....	Deorak
Mr. DePue	
Grand Offretory St. Cecelia No. 2.....	Batiste
Mabel Bell	

## RECITAL

GIVEN BY

## The University Orchestra

MR. DEWITT DePUE, Conductor

THURSDAY, DECEMBER 15, AT 3:30 P. M.

VIOLINS—Miss Julia Veazey, Mrs. DePue, Mrs. G. Greever, Miss Nora McDearmon, Miss Juanita Moore, Miss Alice Dodge, Miss Gene Ramsey, Mr. E. U. Stevenson, Mr. W. Killough and Mr. Norris Skaggs.

MRS. J. LEE HEWITT.....Cello  
MR. TOM NEWMAN.....Clarinet  
MR. ROWLAND LEA.....Bass  
MR. HARRIS RHEA.....Trombone  
MR. H. K. PORTER.....Flute and Piccolo  
MR. EMIL SEIDL.....Drums and Bells  
MISS BLANCHE HOYT.....First piano  
MR. HENRY DOUGHTY TOVEY.....Second Piano

## PROGRAM.

Smyrna Intermezzo.....*Tyers*  
Jacinta Waltzes.....*Robyn*  
University of Arkansas Orchestra  
Tarantelle.....*Popper*  
Mrs. Hewitt  
Al Fresco.....*Victor Herbert*  
Serenade.....*Moskowsky*  
Morning (Perr Gynt).....*Grieg*  
Wedding Day at Troidhaugen.....*Grieg*  
Mrs. Hewitt, Mr. DePue, Mr. Rhea, Mr. Lea, Mr. Porter,  
Mr. Newman, Mr. Seidl, Mr. Tovey.  
Mazurka.....*Musini*  
Mr. DePue  
Barcarolle (from Tales of Hoffman).....*Offenbach*  
Trio in D minor.....*Arensky*  
Scherzo  
Elegie  
Mrs. Hewitt, Mr. DePue, Mr. Tovey  
Vision of Salome.....*Joyce*  
Pourquoi.....*Latour*  
Sarf Dance.....*Chaminade*  
Zallah.....*Lorraine*  
University of Arkansas Orchestra

## RECITAL

"FROM THE WORKS OF EDWARD GRIEG"

GIVEN BY

MR. DEWITT DEPUE, Violinist

MR. EDWARD CLAIR TOVEY, Baritone

MISS BLANCHE HOYT, Pianist

MR. HENRY DOUGHTY TOVEY, Pianist

WEDNESDAY AFTERNOON, NOVEMBER 9, AT 3:30

## PROGRAM.

Concerto for piano In A minor

Allegro moderato

Adagio

Allegro moderate molto e marcate

Mr. Tovey

(Orchestra parts on a second piano played by Miss Hoyt)

Margarethline

Autumnal Gale

Mr. Edwin Clair Tovey

Sonata for piano and violin in C minor

Allegro molto ed appassionato

Allegretto espressivo alla Romanza

Allegro animato

Mr. DePue and Mr. Tovey



## ELOCUTION AND PHYSICAL CULTURE.

MRS. VANDEVENTER-CROCKETT, *Head of the Department.*  
MRS. WHITE, *Assistant.*

## Elocution.

The studios are on the third floor of the main building and are large, sunshiny and airy. The departmental library is contained in handsome cases in one of the class rooms. The stage room will seat about one hundred and fifty people; it has recently been refurnished and redecorated. There is a unity of effect that is charming and an art environment that is refining and inspiring. Here are given the open class programs, the informal student recitals, some evening programs, and the individual recitals of private pupils and of the Senior class.

Large rooms on the north wing of University Hall are set apart for the use of classes in Physical Culture. These rooms have been furnished with suitable lockers and other customary conveniences, and with the equipment necessary for systematic physical training. To these rooms the public is cordially invited to witness the exhibitions given by the different classes at special dates during the year.

Courses are offered in Vocal Expression, Philosophy of Expression, Psychology of Expressive Movement (gesture), Impersonation, Public Reading, Drama, Rendering of Shakespearean Text and Character, Platform Art, Study of Literary Masterpieces through Interpretation, Pantomime, Practical Drill, and Criticism, Training of the Speaking Voice, Vocal Technique, Method of Teaching.

The department meets the need of many who realize the value of training for the development of personal power and for the opening up of new and enduring fields of culture. Expressional training of the best kind refines the sensibilities, cultivates beauty of speech, trains the intellect, educates the emotions, broadens the sympathies, gives keener insight into and deeper understanding of life, puts the student into best and fullest command of voice and body, and therefore into easier, more harmonious, and more effective relations with his fellow-men. The aim of the department is to enable the student to transform knowledge and truth into character and action, to produce a cultured personality, possessed of great expressional power; to cultivate a

personal taste for literature and ability to interpret and express it is considered more valuable than mere theoretical knowledge.

Elocution is the hand-maid of literature, just as instrumental playing is the hand-maid of music. Expressive reading tends to increase the love for good reading and is a valuable means of mental discipline. The study of elocution develops the imagination to the extent that enables the pupil to understand, appreciate, and love the best in literature.

The value of public speech is emphasized as a most powerful agency and as an avenue to recognition and usefulness. Instruction is given to those who really love the art of self-improvement and who, because they have a future to live up to, are willing to work faithfully and well. When the student has found his best self, and has learned to express that self, he has received the best possible preparation for the work of life.

1. The work comprehends all that relates to the study and the teaching of the fine art of public reading, the understanding of the relation of art to life; the study of the interpretative forms of literature and the careful training of all the faculties and agents necessary to the artistic translation of these forms back to life. The process of instruction founded upon recognized principles of art and life is revelatory and self-discovering, rather than arbitrary and academic.

The imagination is cultivated, the emotional nature is developed and controlled, and the will is strengthened by learning to follow a train of thought. The effects are naturalness, directness, and repose.

2. Training in vocal expression, philosophy of expression, psychology of expressive movement (gesture), impersonation, public reading, oratory, drama, rendering of Shakespearean texts and characters, study of literary masterpieces for interpretation, training of the speaking voice, the voice treated as an instrument. The object of the training is to free and develop this instrument and render it obedient and responsive to thought and emotion.

Lectures on the physiology and hygiene of the voice, and the relation of the vital organs to the vocal; the fundamental principles of voice production and its relations to the nervous system, deep and rhythmic breathing; placing of tones; projection of tones, development of resonance, flexibility, freedom, smoothness,

purity, power, and brilliancy of tone; voice as an interpreter of mental states and its relation to imagination and feeling; overcoming individual defects in vocal organs; clear articulation and perfect enunciation.

3. Oratory—a study and delivery of some of the great orations and the methods adopted by the leading orators; Bible and hymn reading; practice in the laws that govern universal art as applied to oratory and original speeches.

4. The chief aim of the work is to awaken the student; to free him from constrained, limited, and erroneous habits of thought, action and voice; to open his avenues of impression; to quicken his imagination and to give him knowledge and control of his agents of expression; to lead the student into a knowledge and understanding of the interpretative forms of literature, the poem, the story, the oration, the play; to develop his emotional response to his thought and to train him to control his emotions by his artistic judgment.

All normal students in the University are required to have two years in expression and one year in physical culture. The work in expression is given with a double purpose: First, to assist the teacher to teach reading; second, to help the teacher to improve his own reading. The importance of this work can not be overestimated. A successful teacher of reading must appreciate the meaning and beauty of literature. A student, to accomplish the best in his school life, should cultivate the power of genuine thought-getting. The work of dramatic art consists of the study and presentation of plays of high standing, not only for their entertaining, but educational qualities as well. It is absolutely certain that students who undertake the masterpieces of dramatic literature in theatrical productions learn more of the literature of the drama in their dramatic performance of plays than they can learn of such things in any other possible way, because of the mode of getting at the truth, the life, the spirit, and meaning of the play in its actual performance. Through the performance of a Shakespearean play, the pupils acquire a better knowledge of Shakespeare, a greater appreciation of his language and art than they could possibly learn in any other way.

During the past three years the class in dramatic art, known as the "University Dramatic Club," has presented creditable



performances of Shakespeare's "Twelfth Night," "The Taming of the Shrew," Israel Zangwill's "Merely Mary Ann," Geo. Ade's "College Widow."

*Text-books used*—Southwick's Elocution and Action, and Steps to Oratory; Stebbins-Astley's Physical Culture; Practice Book of the Leland Powers' School; Talks on Some Fundamentals of Expression by Leland Powers and Carol Hoyt Powers; Emily Bishop's Interpretative Forms of Literature; S. H. Clark's Hand Book of Best Readings and How to Teach Reading in the Public Schools; Chamberlain and Clark's Principles of Vocal Expression and Literary Interpretation; S. S. Curry's Vocal and Literary Interpretation of the Bible; and Browning and the Dramatic Monologue; Clark and Blanchard's Practical Public Speaking; Walter Dill Scott's The Psychology of Public Speaking; studies of Literary Masterpieces and Shakespeare's Plays.

### PHYSICAL CULTURE.

The physical training department of the University of Arkansas embraces a wide field for the development of the body. The methods adopted are those used in the leading gymnasiums in the United States. The best systems have been selected and brought to a practical basis that they may be utilized by young and old with wonderful results. The greatest care is used to select such movements as will correct defects and adjust all parts of the body. Each pupil has advice as to his needs and suitable exercises suggested to fill the need. Frequent talks are given on hygiene, physiology, anatomy, and the relationship of mind to body.

Physical Culture as taught in the department is shown to be a mental training as well as body-building. The Ling system is used for discipline. Quick, accurate movements are given to secure coördination of muscle and mind. Ready obedience to commands promotes great self-control. The Ralston system produces similar results though much more skill and power may be attained. The Emerson system perfects rhythm, harmony, and self-control. Nerve power is generated and latent nerve centers stirred into activity. Poise in bearing is an outgrowth from the practice of Emerson exercises. Several other systems are employed for corrective purposes. Dumb-bell, Indian club, wand and bar bell drills are given for concert action as well as to perfect rhythm and to stimulate the nerves.

Apparatus work is taught on the horse, the ladder, the bar-stalls, the spring board, the parallel bars, the horizontal bars, the trapeze and mate exercises to develop elasticity and endurance.

The best results must ever be reached when breathing exercises are taken in connection with the physical work. Therefore much attention is given at the beginning of the course to proper inhalation and exhalation.

3. LECTURES—These are given on etiquette, morals, manners, laws of hygiene, hygienic dress, aesthetic and artistic culture as revealed by nature and art, and the relationship of nature and art.

#### DEPARTMENT OF ART.

MISS ELIZABETH GALBRAITH,  
MISS EVELYN METZGER, *Assistant*.

The plan of incorporating a practical school of drawing and painting in a college course has been demonstrated as not only possible but successful in the highest degree. The studio work is conducted in the same manner as in the purely technical art schools, while the students have the advantage of other studies, thereby giving them mental development which renders them more sensitive to artistic development.

The work in the department is divided into two courses, Academic and Normal. The Academic offers a four years' course for students wishing to specialize in art. The aim of the instruction offered is to train students to become painters, illustrators, teachers' and designers. At the same time sufficient literary studies are taken to qualify for a diploma, which will be conferred upon completing the course.

#### ACADEMIC COURSE IN ART.

##### First Year.

Drawing—In charcoal from the cast.

Still Life—In charcoal, first semester. In color, second semester

Composition—The study of the division of spaces by line, and dark and light, with particular attention to harmony and rhythm, and balance of masses.

Sketching—One afternoon a week.

Perspective—The principles of free hand perspective are taught and applied in sketching objects and interiors.

One hour a week in History of Art, beginning with the earliest period down to the Renaissance.

### Second Year.

Drawing—Portrait, three mornings a week.

Still Life—Two mornings a week painting in oils.

Composition—One composition each week on some given subject.

Sketching—From pose one afternoon each week.

History of Art—From the Renaissance to the present time.

### Third Year.

Full length—Drawing from life, painting from life in oil or water color.

Composition—One composition each week in color.

Sketching—One afternoon a week.

History of Art—Biography of artists.

### Fourth Year.

This year's work same as third year, more independence being required.

A concourse is held once a month, the studies being afterward judged and marked according to merit by the teachers. This plan allows the student to compare his work with others and see what qualities are most valued by the instructors.

The department arranges for exhibitions from other schools which are held from time to time in the studios. These are open free to all students of the University.

#### FRESHMAN—

English, three hours.

Foreign Language, three  
or four hours.

Biology, three hours.

History, two hours.

Art, four hours.

#### JUNIOR—

English, two hours.

Psychology, three hours.

Economics, two hours.

Elective, three hours.

Art, five hours.

Art History, one hour.



## SOPHOMORE—

English, three hours.  
Foreign Language, three  
hours.  
Economics, two hours.  
Biology, three hours.  
Art, four hours.  
Art History, one hour.

## SENIOR—

Ethics, three hours.  
Elective, five hours.  
English, two hours.  
Art, five hours.  
Art History, one hour.

## NORMAL COURSE IN ART.

The Normal Course of Public School Drawing is divided into two courses, a one-year course, the required work for every matriculate for the L. I. degree, which takes up a critical study of theories and methods in the teaching of art in the public school. A second year is offered to students wishing to become supervisors and special teachers of drawing, with the details of art education. In both courses the students obtain much theory and practice, also a development of æsthetic appreciation of the beautiful. The principles in the training of teachers for public school drawing is from a purely educational standpoint. The truths of nature and the principles of design are taught as the subject-matter of drawing, the pictorial and illustrative art as forms of expression the pupils will not only acquire some knowledge of the simple fundamentals of science and art, but they will learn to see with intelligence, to think with continuity, and to work with skill.

"Drawing in the public schools hitherto taught to train the hand and eye only we feel now to be one of the fundamental modes of human expression second only to the spoken and written word."

## CRAFT CLASS.

Instruction in applied design or craft work is offered free to a limited number, students in Special class being given first place. The decoration and execution of articles in leather, metal, etc. is taught chiefly to develop the power to appreciate a fine piece of work and the ability to discriminate between good and bad design.

# THE MEDICAL SCHOOL

Little Rock.

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JOHN NEWTON TILLMAN, LL. D.,

*President of the University.*

EDWIN BENTLEY, M. D., U. S. A. (Retired),

*Professor of Principles and Practice of Surgery.*

JAMES H. LENOW, A. M., M. D.,

*Professor of Genito-Urinary Diseases, and Dean.*

E. R. DIBRELL, M. D.,

*Professor of Medicine.*

FRANK VINSONHALER, M. D.,

*Professor of Ophthalmology and Otology.*

W. H. MILLER, M. D.,

*Professor of Obstetrics.*

F. L. FRENCH, M. D.,

*Professor of Anatomy.*

CARLE E. BENTLEY, M. D.,

*Professor of Principles and Practice of Surgery and Clinical Surgery.*

JOHN R. DIBRELL, M. D.,

*Professor of Clinical Microscopy and Bacteriology.*

ANDERSON WATKINS, M. D.,

*Professor of Principles and Practice of Surgery.*

C. E. WITT, M. D.,

*Professor of Materia Medica and Therapeutics, and Secretary.*

MORGAN SMITH, M. D.,

*Professor of Physiology.*

A. R. STOVER, M. D.,

*Professor of Chemistry.*

M. D. OGDEN, M. D.,

*Professor of Pathology and Histology*

O. K. JUDD, M. D.,

*Professor of Anatomy.*

- A. E. HARRIS, M. D.,  
*Professor of Clinical Medicine and Physical Diagnosis.*
- OSCAR GRAY, M. D.,  
*Professor of Clinical Gynecology.*
- J. L. DIBRELL, M. D.,  
*Demonstrator of Anatomy,*
- E. P. BLEDSOE, M. D.,  
*Professor of Nervous Diseases.*
- WILLIAM C. DUNAWAY, M. D.,  
*Professor of Gynecology.*
- 

Lecturers, Instructors, and Demonstrators.

- MORGAN SMITH, M. D.,  
*Instructor in Pediatrics.*
- A. L. CARMICHAEL, M. D.,  
*Instructor in Clinical Medicine.*
- J. G. WATKINS, M. D.,  
*Assistant in Ophthalmology and Otology.*
- J. C. CUNNINGHAM, M. D.,  
*Assistant in Obstetrics.*
- M. D. McCLAIN, M. D.,  
*Assistant in Genito-Urinary Diseases.*
- MILTON VAUGHAN, M. D.,  
*Assistant in Materia Medica and Therapeutics.*
- WM. GOODWIN, M. D.,  
*Assistant in Clinical Microscopy and Bacteriology.*
- C. V. SCOTT, M. D.,  
*Assistant in Clinical Surgery.*
- H. H. KIRBY, M. D.,  
*Instructor in Dermatology and Assistant Demonstrator of Anatomy.*
- A. M. ZELL, M. D.,  
*Assistant in Pathology.*
- J. A. TELLER, A. B., LL. B.,  
*Lecturer on Medical Jurisprudence.*
- (To be supplied).  
*Instructor in Chemical Laboratory.*



R. L. MAXWELL, M. D.,

*Prosector of Anatomy.*

(To be supplied).

*Assistant Demonstrator of Anatomy.*

I. H. JEWELL, M. D.,

*Instructor in Physiology.*

VINCENT FALISI, A. B., M. D.,

*Instructor in Surgery.*

Y. E. WHITMORE, D. D. S.,

*Lecturer on Dental Surgery.*

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All communications should be addressed to

C. E. WITT, M. D.,

Secretary of the Faculty, Little Rock, Ark.

THIRTY-THIRD ANNUAL ANNOUNCEMENT  
OF THE  
UNIVERSITY OF ARKANSAS  
MEDICAL DEPARTMENT  
HISTORICAL.

The Medical Department of the Industrial University was organized in 1879 and the first course of lectures commenced on Tuesday, October 7, 1879, and continued until March, 1880, there being twenty-two matriculants, one of whom received the degree of Doctor of Medicine. Each succeeding year the faculty has awarded diplomas to classes of increasing size until the alumni now number over four hundred and fifty. There have been about twenty-seven hundred matriculations since the school began.

The department's first building was located at 113 West Second Street, but owing to its rapid growth, the present building, designed for the purpose, was erected on Second and Sherman streets in 1890. This building has again been outgrown and there is now in contemplation a magnificent new structure, the details of which are given elsewhere. The name was changed by legislative enactment to University of Arkansas, Medical Department, in 1899.

GENERAL STATEMENT.

The thirty-first annual session of the University of Arkansas, Medical Department, will begin Saturday, October 1, 1909, and will continue for seven months, until April 29, 1910.

The matriculation book will be open from and after September 1, to students wishing to matriculate early and secure choice seats.

The trustees and faculty wish to express their appreciation of the continued support of the public and of the medical profession for the past thirty years. It has always been their ambition to keep abreast of the rapid progress which is being made in medical education, and the buildings, laboratories, and various departments have been progressively extended to meet these

growing demands. The department has thus received the cordial endorsement of the Arkansas Medical Society, which annually appoints a board of visitors.

### CO-EDUCATION.

The department is co-educational, women being admitted on the same terms as men.

### GRADED COURSE.

The required period of study for the degree of Doctor of Medicine is four years. The two first years are devoted mainly to the fundamental branches of medicine, while in the last two, Medicine, Surgery, Obstetrics, and the various specialties are studied in the hospitals, the Isaac Folsom Clinic and the laboratories.

**FIRST YEAR**—Anatomy, Practical Anatomy, Physiology, Inorganic Chemistry, Histology and Materia Medica.

**SECOND YEAR**—Anatomy, Practical Anatomy, Physiology, Organic Chemistry, Toxicology, Materia Medica, Pathology, Obstetrics and Bacteriology.

**THIRD YEAR**—Materia Medica and Therapeutics, Obstetrics, and Diseases of Children, Clinical Microscopy, Elements of Medicine and Surgery.

**FOURTH YEAR**—Practice of Medicine, Surgery, Dermatology, Venereal Diseases, Gynecology; Diseases of the Eye, Ear, Nose and Throat; Diseases of the Nervous System, Medical Jurisprudence and Medical Ethics.

### ADMISSION.

Applicants for admission are expected to give the faculty satisfactory evidence that they possess the necessary qualification for the study of medicine.

The following is Article IV of the Constitution of the Southern Medical College Association, of which the department is a member:.

“Every student, before being matriculated for the first course of medical lectures in any college belonging to this Association shall be required to possess the following qualifications:



"He shall hold a certificate from some known, reputable physician, showing his moral character and general fitness to enter upon the study of medicine.

"He must possess a diploma of graduation from some literary or scientific institution of learning, or a certificate that he has passed the entrance examination to a university, or a certificate from some legally constituted high school. The minimum preliminary education required by the Southern Medical College Association shall be, after January 1, 1906, a grammar school education and two years' successful attendance at a recognized preparatory school or high school, or its equivalent, said equivalent to be determined by a superintendent of public instruction. A student may be given one month from the date of his admission to submit his certification.

"And if he fails to possess the requisite educational qualifications in one or more branches, he may matriculate and attend his first course of lectures, but must present the required certification before matriculating in the second course, and all tickets of certification issued in such cases must have the condition printed plainly on the face of each.

#### **"Advanced Standing.**

"A set of tickets showing that the holder has attended one full course of medical lectures in any regular and recognized medical college shall be essential for matriculating for a second course of lectures in any college belonging to this Association; and every student, prior to matriculating for a third or fourth course of lectures, shall be required to show, by similar evidence, that he has previously taken two or three courses of lectures."

The following classes of students may apply for advanced standing and obtain it, provided every applicant undergoes a satisfactory examination upon every branch below the class desired to be entered.

(a) Graduates of dentistry and pharmacy and of veterinary medicine.

(b) Graduates and matriculates who have completed one or more courses in colleges of homeopathy and of eclectic medicine.

(c) Graduates of recognized colleges and universities who have completed therein prescribed courses in elementary branches of medicine, including chemistry and biology.

### GRADUATION.

Each candidate for graduation must produce satisfactory evidence of good moral character and of having attained the age of twenty-one years.

No candidate shall be eligible for final examination for graduation unless he files the proper official evidence that he has matriculated at some regular college for four sessions, and in the course of same has attended four full courses of instruction on anatomy, including dissections, physiology, chemistry, materia medica, obstetrics, therapeutics, surgery, pathology, bacteriology and practice of medicine. The last of the four full courses must be attended at the UNIVERSITY OF ARKANSAS, MEDICAL DEPARTMENT. No four consecutive courses of instruction shall be held as satisfying these requirements, unless the time between the beginning of the first course and the end of the fourth is greater than forty-three months. He must have paid all the college fees.

He must present to the secretary before the 1st of March the amount of his graduation fee. In case of failure to pass a satisfactory examination, the money will be refunded.

### LOCATION.

The city of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than sixty-five thousand, and is classed as one of the healthiest cities west of the Mississippi River. All of the eleemosynary institutions of the State, county and city, are located here. These include the Schools for the Blind, the School for Deaf Mutes, the Insane Asylum, Penitentiary, Reform School, County and City Hospitals, etc., all of which contribute to the abundant clinical material at the disposal of the faculty.

### DEPARTMENT BUILDING..

The present building is a brick structure three stories in height and admirably arranged for the convenience of both students and instructors. It has a large lecture hall, a fine amphitheater, museum, dissecting room, laboratories, etc. It is situated on Second and Sherman streets.

### NEW BUILDING.

The city council of Little Rock has made an appropriation for a new City Hospital, to be known as "The Logan H. Roots Memorial Hospital," which will be built in conjunction with a new, modern building of the Medical Department, and the new building for the Folsom Clinic. As all of these buildings will be practically under one roof the student will have unexcelled advantages in the clinics and laboratories. The cost of the new Hospital and Medical Department with the Isaac Folsom Clinic will be between \$80,000 and \$100,000, and the work will be pushed to completion as rapidly as possible.

### HOSPITALS.

The Logan H. Roots Memorial Hospital, by the munificence of the late Col. Logan H. Roots and the benevolence of his widow, the city of Little Rock has an elegant public hospital. THE MEDICAL DEPARTMENT OF THE UNIVERSITY OF ARKANSAS is fortunate in having this hospital situated on lots adjoining and directly connected with their own building, thus giving greatly increased clinical facilities.

The St. Vincent's Infirmary, designed solely for the treatment of acute diseases, has a capacity of nearly a hundred beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, Sisters of Charity. This magnificent institution, conveniently situated, is the finest and best equipped institution of its kind in the Southwest, and is up-to-date in every respect.

The Pulaski County Hospital, erected at a cost of some \$100,000, is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of two hundred beds.

The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults and children—and with them are found almost every form of malady, except quarantinable diseases, which are otherwise provided for.

### THE ISAAC FOLSOM CLINIC.

This clinic is thus designated in honor of the late Dr. Issac Folsom, and in consideration of his liberal endowment with the



sum of \$20,000. The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries. More than six thousand patients attended this clinic last year.

### EXPENSE OF LIVING.

The expense of living in the city of Little Rock will, of course, vary according to the views and habits of the students. Good board, at the present time, including lodging, fuel and lights, may be had at a convenient distance from the college, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

Students on their arrival are requested to visit the University building, corner of Second and Sherman streets, where a list of parties desiring to board medical students will be furnished by the janitor.

Persons desiring further information are requested to address the secretary of the faculty.

### TERMS.

*All fees payable in advance at the beginning of the term. Except graduation fee.*

When a student enters the school and pays the required fees, it is taken for granted that he has given the matter due consideration, and that he is prepared to pursue the course of study prescribed. The faculty stands ready to perform its part of the work as laid down in the curriculum. For these reasons fees once paid by the student can not for any cause whatsoever be refunded nor transferred. A student, however, who has paid his tuition fee and for good reason is unable to complete his session, will be given credit for the amount, and upon his return to the school at some subsequent time, he will not be required to pay the same fee for the second time.

The fees of this institution are \$425 for the four-years' course.

Considering the exceptional advantages for practical instruction in hospital and laboratories, and the constant care and labor bestowed upon the pupils, the charges are as low as are compatible with the superior advantages given; and the faculty therefore appeal to their professional brethren throughout the South-

west to continue their support to an institution which does not seek to increase the size of its classes by pecuniary rivalry and discreditable underbidding, but by offering a full equivalent for its charges.

**Table of Fees for Every Year of the Four-Year Course.**

	First Year	Second Year	Third Year	Fourth Year
Matriculation.....	\$ 5 00	\$ 5 00	\$ 5 00	\$ 5 00
Professors, Lectures, Etc.....	95 00	95 00	95 00	95 00
Graduation, Diploma, Etc.....				25 00
Total.....	\$100 00	\$100 00	\$100 00	\$125 00

There are no fees for special courses or quizzes in this college. No professor or assistant is allowed to receive a fee for instruction.

No extra charge will be made for dissecting material, demonstrator's or hospital tickets.

The secretary will issue matriculation cards, which must be presented whenever required. Attendance upon lectures and other exercises will be denied to those who do not present such cards.

*Students have the privilege of attending all lectures and clinics whenever they do not conflict with their prescribed course.*

## THE LAW SCHOOL

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- JOHN NEWTON TILLMAN, LL. D.,  
*President of the University.*
- J. H. CARMICHAEL, LL. B., DEAN,  
*Contracts, Constitutional Law, Conflict of Laws, Judgments*
- JOHN FLETCHER, LL. M.,  
*Real Property.*
- GEORGE W. MURPHY, LL. B.,  
*Law of Evidence.*
- TOM M. MEHAFFY, LL. B.,  
*Law of Torts.*
- JACOB TRIEBER, LL. B.,  
*Federal Procedure.*
- WALTER G. REDDICK, LL. B.,  
*Law of Insurance.*
- WILLIAM M. LEWIS, LL. B.,  
*Criminal Law and Procedure.*
- T. N. ROBERTSON, LL. B.,  
*Agency, Corporations, Negotiable Instruments, Pleading  
and Practice.*
- JOHN E. MARTINEAU, LL. B.,  
*Equity Jurisprudence.*
- JOHN T. CASTLE, D. C. L.,  
*Fraudulent Conveyances.*
- R. E. WILEY, LL. B.,  
*Law of Bankruptcy.*
- W. B. BROOKS, LL. B.,  
*Domestic Relations, Real Property—Junior.*
- R. C. POWERS, LL. B.,  
*Law of Bailment and Torts.*
- J. K. RIFFEL, LL. B.,  
*Law of Partnership.*
- GEORGE VAUGHAN, LL. B.,  
*Abstracting and Searching Titles.*



### LOCATION.

The Law Department of the University of Arkansas is located in the city of Little Rock. The location is an ideal one for the school. Being the capital city, the Legislature meets here every two years, thus affording each student an opportunity during his course to witness one session of that body, to observe its proceedings, to study parliamentary rule and practice, and to meet representative men from different parts of the State.

The Supreme Court of the State sits in this city and is in session about nine months of each year. Students have full opportunity to attend its deliberations, to listen to arguments by the ablest lawyers of this and other States before this distinguished tribunal, and to hear the opinions of the court upon propositions of law and determination of causes submitted for their decision and final disposition.

Through an arrangement with the clerk of the Supreme Court, the school is enabled to secure each student access to the Supreme Court library, where almost any book on a legal subject may be found. The library is a very fine one, and the opportunity thus afforded to students to use same is of incalculable benefit.

The Federal district and circuit courts, two State circuit courts, a chancery court, and county and probate courts, police and magistrates courts are all accessible to the student for observation and instruction, both in the law and in the practical procedure in the courts for the enforcement of its principles.

The city has an able bar, the members of which are kind and courteous to beginners in the work of the profession, and generously extend to them aid and counsel.

Little Rock has a semi-tropical climate, free from extremes of heat and cold and admirably suited to the needs of the student.

### PURPOSE.

It is not the purpose of the Law Department of the University of Arkansas to persuade any young man to study law who does not of his own free will choose to do so. But all those who contemplate the study with the view of entering upon the practice of the law as a profession or for the protection and valuable assistance a knowledge of the law affords in the successful prosecution of almost every line of business enterprise, or even for

the mental culture, the broad and liberal conception, the lucid and logical reasoning, the just and accurate conclusion, which are so manifestly characteristic of the legally-trained mind, the department respectfully solicits their patronage. It is to be presumed that every true son of Arkansas who aspires to the practice of the law as a profession in this State has enough State pride to select his home institution to prepare himself for his chosen vocation. Especially should this presumption hold when the advantages afforded him by the law department of his own State University are equal, and to him, in many important particulars, superior, to those of similar institutions of other States. The instructors of this department of our State University are all active practitioners of the law and have engaged in this educational work from a realization of the pressing needs of such an institution as a department of the educational system of the State to meet the demands of our young men, who are the State's best hope for her future lawyers and statesmen.

#### ADMISSION.

While we fully appreciate the advantages of a thorough collegiate training in the various academic branches as a preparation for the study of the law, we have not made such acquirement a prerequisite to admission to this department. Applicants will be admitted to take up the studies of the junior course who are possessed of a fair English education, such as may be acquired in our public schools. Students may be admitted to the senior course upon producing sufficient proof of their having given the necessary time and study to the different subjects of the law, either in another law school or under the direction of a practicing lawyer, but no student will be granted the degree until he has passed a satisfactory examination on all the branches embraced in the full course for the two years.

#### COURSE OF INSTRUCTION.

The course of instruction covers a period of two years, consisting of four terms. We deem a shorter period insufficient for the proper preparation of the student of the law for his profession. In the language of a distinguished jurist, "He who is not a good lawyer when he comes to the bar will seldom be one afterwards." Our method of instruction consists of daily reci-

tations upon previously assigned lessons in the text-books, with special lectures to emphasize the conclusions of the author, and to enlarge the student's conception of the same. We deem the above system of instruction, with daily recitations largely predominating, superior to either the recitation or lecture system when pursued alone. In addition to the above, students are required to prepare and submit to the professors legal papers in the form of briefs upon the various topics of the text-writers, thus combining the abstract theory of the law with the practical application of the same to the different sets of facts embraced in the various decisions of the courts consulted by the student while preparing his paper. The course of study for the two years will embrace the subjects named and assigned, as follows:

#### **Junior Year.**

FIRST TERM—Contracts, Agency, Criminal Law, Torts, Partnerships.

SECOND TERM—Corporations, Negotiable Instruments, Real Property, Bailments, Insurance, Sales.

#### **Senior Year.**

FIRST TERM—Real Property, Equity, Domestic Relations, Constitutional Law, Fraudulent Conveyances.

SECOND TERM—Real Property, Evidence, Pleading and Practice, Conflict of Laws, Federal Procedure, Judgments, Legal Ethics, Bankruptcy, Medical Jurisprudence.

The first term of each year's course begins on the third Monday in September; the second term begins on the third Monday in January and ends on the first Friday in June.

#### **List of Text-books.**

Anson on Contracts; Tiffany on Agency; Clark on Criminal Law; Hale on Torts; Shumaker on Partnerships; Clark on Corporations; Daniel and Douglass on Negotiable Instruments; Real Property—Junior, Blackstone; Van Zile on Bailments; Vance on Insurance; Tiffany on Sales; Tiedeman on Real Property; Eaton on Equity; Tiffany on Persons and Domestic Relations; Cooley on Constitutional Law; Wait on Fraudulent Conveyances; Greenleaf on Evidence; Bryant's Code Pleading; Minor on the



Conflict of Laws; Curtis on Jurisdiction of United States Courts; Black on Judgments; Frank on Bankruptcy; Reese on Medical Jurisprudence.

#### Publishing Houses of Foregoing Text-books.

Anson on Contracts, Van Zile on Bailments, Greenleaf on Evidence—Callaghan & Co., Chicago; Tiffany on Agency, Clark on Criminal Law, Hale on Torts, Clark on Corporations, Vance on Insurance, Tiffany on Sales, Eaton on Equity, Tiffany on Persons and Domestic Relations, Black on Judgments—West Publishing Company, St. Paul, Minn.; Shumaker on Partnerships—Keefe-Davidson Company, St. Paul, Minn.; Daniel and Douglass on Negotiable Instruments, Wait on Fraudulent Conveyances and Creditors' Bills—Baker, Voorhis & Co., New York City; Real Property (Blackstone)—J. B. Lippincott Company, Philadelphia; Tiedeman on Real Property—The F. H. Thomas Law Book Company, St. Louis; Cooley on Constitutional Law, Minor on the Conflict of Laws, Bryant's Code Pleading—Little, Brown & Co., Boston, Mass.

#### MOOT COURTS.

Moot Courts begin with the last term of the Junior Year and continue throughout the course, and are termed the judicial department of the school, and embrace all the courts—Justice, Probate, Circuit and Supreme—all modeled according to the constitutional requirements of our State.

The Supreme Court shall consist of three Judges, a Chief Justice and two associates.

The Circuit Court shall consist of one Judge, a Clerk, and a Sheriff, to be elected by the students.

County and Probate Courts shall consist of one Judge, a Sheriff, and a Clerk, to be elected by the students.

Justice of the Peace Court shall consist of a member of the Senior Class, who shall be elected by the student body.

These courts shall be under the immediate supervision of the Dean, who will be assisted by the members of the faculty in compiling statements of facts embracing principles of law pertaining to the respective branches under their instruction, for the use of said courts.

### GOAR LYCEUM.

This society is composed of the students of both the Junior and Senior Years, and meets regularly every Wednesday night during the session. The exercises consist chiefly of theses and debates embracing subjects legal in their nature. The performance if these exercises is insisted upon by the faculty, for such practice enables the student to acquire the invaluable faculty of learning to "think whilst on his feet," besides giving him an easy manner of address in public speaking.

### EXAMINATIONS.

Written examinations are held each term in the presence of a member of the faculty, upon questions handed the student at the time, and on the merit of their papers students will be graded.

### DEGREES.

The degree of Bachelor of Laws will be conferred upon all students who have passed an examination on each of the subjects embraced in the course, and have attained the average standard grade of proficiency.

### CLASS HONORS.

Honorable competition is the life of all enterprise; therefore, we confer the following evidences of distinction: Upon the student attaining the highest average grade shall be conferred the distinction of first honor man of his class; the one attaining the next highest, the second honor man; and the one making the next highest, the third honor man.

The faculty authorizes the selection of three orators to deliver orations at the commencement exercises, as follows: The Senior Class, one; the Junior Class, one; and the Goar Lyceum, one.

### PROFESSIONAL ETHICS.

While endeavoring to impart a knowledge of the fundamental principles of the law, the subject of professional ethics will be given special attention and its demands constantly impressed upon the minds of the students as indispensable to the attainment of an honorable and successful career as a lawyer.

## ADMISSION TO THE BAR.

By a recent act of the Legislature all graduates of the Law Department of the University of this State are admitted to the practice of law in the Supreme Court and all inferior courts of the State without the requirement of an examination.

## THE LAW SCHOOL VS. THE LAWYER'S OFFICE.

The once prevalent idea that the proper preparation for the profession of the law is "to read law" in some distinguished lawyer's office is at this day and time completely exploded. No lawyer busily engaged in the active practice has the time or the inclination to devote much of his attention to the office student. The lack of system in outlining the course of study and the repeated failure to conduct the daily quiz and instruction lead the student into such confusion and discouragement, whereby his progress is greatly retarded.

The late Chief Justice Wait, in referring to this question, said: "The time has gone by when an eminent lawyer, in full practice, can take a class of students into his office and become their teacher. Once that was practicable, but now it is not. The consequence is that law schools are now a necessity."

The superior advantages offered by the law school over the lawyer's office to prepare students for the legal profession, were so ably and clearly presented in the report of the Standing Committee on Legal Education and Admission to the Bar of the American Bar Association, in 1879 and 1881, a committee consisting of Carlton Hunt, of Louisiana; Henry Stockbridge, of Maryland; U. M. Rose, of Arkansas; George Hoadley, of Ohio, and Edmund H. Bennett, of Massachusetts, that we quote the following as the conclusion of the above committee in their report, which was unanimously adopted by the association:

"There is little, if any, dispute now as to the relative merit of education by means of law schools, and that to be got by more practical training or apprenticeship as an attorney's clerk. Without disparagement of mere practical advantages, the verdict of the best-informed is in favor of the schools.

"The benefits which they offer are easily suggested, and are of the most superior kind. They afford to the student an acquaintance with general principles, difficult, if not impossible, to be otherwise attained; they serve to remove difficulties which



are inherent in scientific and technical phraseology; and they, as a necessary consequence, furnish the student with the means for clear conception and accurate and precise expression. They familiarize him with leading cases, and the application of them in discussion. They give him the valuable habit of attention, teach him familiar maxims, and offer him the priceless opportunities which result from constant and generous emulation. They lead him readily to survey law as a science, and imbue him with the principles of ethics as its true foundation. Disputing, reasoning, reading and discoursing, because his constant exercise."

Again, in an able paper read before the New York State Bar Association by Franklin M. Danaher, a member of the State Board of Examiners, on the 20th of January, 1897, we find the following language:

"Observation shows that under modern conditions existing in the profession, an education in law can not be produced exclusively in a law office, and that those who have had the benefit of law-school training are better equipped to enter upon their career, and are more likely to succeed therein than those who come to the bar through an office. \* \* \* Members of the bar of the future, to succeed, must have a scientific, well-directed and comprehensive training in a law school. The fact that many of the lawyers of today did not have that advantage and still succeed is no reason why the future will not demand it. \* \* \* The great problem of the higher education of the bar can be materially helped toward the solution, and the bar decidedly improved along lines of public and professional good, by requiring the successful completion of a course of study in an approved law school of all future applicants for admission."

#### TUITION AND EXPENSES.

Tuition, Junior Course, payable on entrance.....	\$60 00
Tuition, Senior Course, payable on entrance.....	60 00
Course leading to Degree of D. C. L.....	50 00
Board and Lodging, per month.....	\$15.00 to 20 00
Diploma .....	5 00

Text-books can be procured with students' discount.

No library or society fees are required of students.

All communications should be addressed to the secretary.

T. N. ROBERTSON,  
Little Rock, Ark.

# THE BRANCH NORMAL COLLEGE

Pine Bluff.

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ISAAC FISHER, PRINCIPAL,  
*Pedagogy and Civil Government.*

FREDERICK THOMAS VINEGAR,  
*Mathematics and Agriculture.*

CHRISTINA RAMBO,  
*Music and Language.*

MAMIE BRAWLEY JUNE,  
*Dressmaking.*

NANETTA C. W. VANDERHOOP,  
*English.*

BIRTON NEIL WILSON, B. Sc. M. E.,  
*Superintendent of Mechanic Arts.*

WILLIAM RSTEPHEN HARRIS,  
*Assistant Superintendent of Mechanic Arts.*

JAMES LINCOLN ROSS,  
*Machine Shop and Forge.*

J. M. BURR,  
*History and Agriculture.*

A. R. REEVES,  
*Mathematics and Agriculture.*

EDWINA M. WRIGHT,  
*Millinery, Drawing and Geography.*

## GENERAL STATEMENT.

The Branch Normal College is a division of the University of Arkansas, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State. Tuition is made free to all appointees, the only requirements for admission being suitable age and qualifi-

cation, appointment by one of the county judges, and the payment of the matriculation fee of five dollars. Other students pay in addition one dollar per month in advance.

### EQUIPMENT.

The college property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County. A handsome and comfortable school building, a dormitory for girls, and manual training shops, containing as complete an equipment as can be found in any similar shops of the South.

### REQUIREMENTS FOR ADMISSION.

Candidates must be at least sixteen, if young men, and fourteen, if young women; and must pass satisfactory examinations in arithmetic, English grammar, geography and United States history.

### APPOINTMENT OF BENEFICIARIES.

By the laws of the State, the appointment of students to the Branch Normal College in numbers from each county in the State is the same as to the parent University at Fayetteville. The power is vested in the county courts, but any vacancies occurring during the vacations of the court shall be filled by the judge of the county court.

All students thus appointed are entitled to four years' free tuition upon the payment of five dollars' matriculation fee in advance at the time of entering the institution.

These appointments are not transferable, and students holding them must be very careful that their conduct is not such as will lead to their forfeiture; and it may also be stated that the principal reserves the right to declare forfeited the appointments of those students who are not present at the opening of the autumn term.

Students planning to enter the college should go to their county judges for appointments, which, if received, must be brought to the college. Blanks for appointments may be secured by addressing Principal Isaac Fisher, Pine Bluff, Ark.



**NORMAL DEPARTMENT.**

The college offers a good course of training for those who plan to become teachers. More and more the aim will be to give scientific instruction in the matter of teaching the branches of public schools. Arrangements have been made with the superintendent of the Pine Bluff public schools by which the student-teachers at this college may inspect the school system in actual operation. Candidates completing the work of this department will be granted the certificate of Licentiate of Instruction (L. I.). Applicants must pass a satisfactory examination in the ordinary English branches to be able to enter the school.

**CLASSICAL DEPARTMENT.**

Candidates completing this course will be granted the degree of Bachelor of Arts (B. A.), but no candidate failing to write and submit an original thesis on the teacher of English will be given this degree. The subject of thesis must be selected in December of the Senior year.

**THE MECHANIC ARTS DEPARTMENT.**

This department offers a splendid opportunity to young colored men to become skilled blacksmiths, machinists, engineers and firemen. The mechanic arts course and the manual training normal course are strong combinations of shop work and literary training. It is hoped that these courses will from time to time attract young men who desire to fit themselves for higher usefulness by preparing for the pursuit of those occupations for which there is a strong demand. In addition to these there is offered a course in woodworking, which comprises cabinet making, pattern making and carpentry.

**DEPARTMENT OF DRESSMAKING.**

Young women are here given an opportunity to learn plain sewing, crocheting and art needle work. There is a fine outfit of sewing machines and other requisites for doing the work planned by this department.

**TYPEWRITING AND STENOGRAPHY.**

These subjects are taught one hour each day. Shorthand classes will be formed whenever a sufficient number of students desire to pursue this study.

### MILITARY DRILL.

The young men of the college have been organized into a battalion of cadets to promote habits of neatness, order and punctuality, and to develop an ennobling self-control in every young man connected with the school.

Under the military system thus established, it is aimed to exercise that control of the cadets which is so essential to easy and proper discipline. All young men are subject to the drill regulations.

### PHYSICAL EXERCISE.

An athletic association for the purpose of fostering clean athletics and at the same time giving healthful exercise, has been organized under the direction of a member of the faculty, who will see that no excesses are indulged in, and that sports do not interfere with the work of the other departments. Physical culture for young women is also a feature of the college work.

### PUBLIC RHETORICALS.

Twice every month public rhetorical are held in the chapel and all students are subject to assignment on the programs.

### RELIGIOUS LIFE.

Prayers are held in the chapel every morning except Saturdays and Sundays. All students are required to attend these devotions. On Sundays, the students who board in the town attend the various churches, while the girls living in the dormitory are taken to the churches of their several choices by members of the faculty.

### HOLIDAYS.

The exercises of the college are suspended for one day at Thanksgiving, one on Washington's birthday, and about ten days at Christmas.

### LECTURE COURSE.

A course of lectures on live topics is given during the year. These are free, both to the students and to the public.

**TRUSTEES' PRIZE.**

This prize consists of twenty-five dollars, and is given to "that member of either of the two highest classes who shall during commencement week pronounce the best oration on any one of a number of subjects to be selected by the Principal."

**GENERAL EXERCISES.**

The general exercises include reviews of the Sunday-school lessons and of events of the week; also music and drawing. There are regular lessons in vocal music which are given to all students. Students will frequently be required to give public evidence of their skill in using the library intelligently. All exercises must be attended faithfully.

**EXPENSES.**

For all students, matriculation fee, in advance.....	\$ 5 00
Board, fuel and light, for girls in the dormitory.....	8 00
Board, fuel and light, in private families.....	\$8.00 to 10 00
Non-beneficiary students, for tuition, per month.....	1 00

Books at usual retailers' price.

Entrance fees and board bills are payable in advance.

For further information concerning any department of the college, address the Principal,

ISAAC FISHER,  
Pine Bluff, Ark.



# REGISTER OF STUDENTS

## THE COLLEGE.

*Abbreviations*—B. A., Bachelor of Arts; B. S. A. Bachelor of Scientific Agriculture; B. M. E., Bachelor of Mechanical Engineering; B. C. E., Bachelor of Civil Engineering; B. E. E., Bachelor of Electrical Engineering; B. Mi. E., Bachelor of Mining Engineering; B. Ch. E., Bachelor of Chemical Engineering; M. A., Master of Arts; M. S., Master of Science; C. E., Civil Engineer; E. E., Electrical Engineer; M. E., Mechanical Engineer; L. I., Licentiate of Instruction.

### Graduates.

Name	Course	Home Address	City Address
Davis, Raymond Lee	M. A.	El Paso	Sigma Chi House
Dickinson, Benjamin F.	M. E.	Little Rock	324 College Ave.
Dickson, Bruce Wesley	M. A.	Kingsport, Tenn.	358 Arkansas Ave.
Droke, Marvin Josephine	M. A.	Fayetteville	103 Hill St.
Huntley, Phil Conrad	C. E.	Kingston	Sigma Chi House
Mardis, Paul L.	E. E.	Clarksville	763 W. Dickson St.
Mitchell, N. D.	C. E.		
White, Felix Sloan	E. E.	Fayetteville	523 Willow St.
Williams, Walter Quincy	M. E.	Brentwood	820 Douglas St.
			Total, 9.

### Seniors.

Abbott, Thomas Oscar	B. A.	Newman	Dormitory
Allen, Benjamin F.	B. A.	Heber	Dormitory
Alphin, Julius Hendrick	B. A.	El Dorado	Dormitory
Ashley, John Carter	B. A.	Violet Hill	Dormitory
Bagley, Henry Stuart	B. E. E.	Little Rock	201 E. Dickson
Barton, Herbert Wells	B. M. E.	Searcy	Dormitory
Bateman, Jake Thomas	B. A.	Clarendon	Mrs. Neely's
Baxendale, John	B. M. E.	Fayetteville	Dormitory
Beane, Ada Louise	B. A.	Rogers	Carnall Hall
Bennett, Fred	B. C. E.	Benton	339 Gregg St.
Black, Lanie George	B. A.	Corning	Kappa Sigma House
Blackford, Mary	B. A.	Fayetteville	424 Willow St.
Blakemore, William Allen	B. C. E.	Prairie Grove	Dormitory
Bradford, Clarence Gray	B. A.	West Point	Dormitory
Brewer, Ozero Carl	B. A.	Murfreesboro	Dr. D. Y. Thomas
Brown, Clifford John	B. C. E.	Fordyce	Dormitory
Buckley, Virgil B.	B. C. E.	Rogers	Dormitory
Burnside, Aurelle	B. A.	El Dorado	Carnall Hall
Carden, William Morton	B. A.	Malvern	Dormitory
Carruth, Robert Hill	B. A.	Warren	Main Building
Carter, Bess	B. A.	Fayetteville	513 Washington Ave.
Chandler, Perry Earl	B. E. E.	Siloam Springs	Dormitory

Name	Course	Home Address	City Address
Cole, Leon R.	B. E. E.	Sand Lake, Mich.	Dormitory
Couch, Nelle Steele	B. A.	Magnolia	Carnall Hall
Creekmore, Stephen Wheeler	B. A.	Van Buren	517 College Ave.
Cypert, Alfred Boyd	B. A.	Little Rock	Dormitory
Deberry, Henry Drew	B. E. E.	Bogata	Dormitory
Dorough, William Thomas	B. A.	Little Rock	Dormitory
Douglas, Chas. Howard	B. E. E.	Fort Smith	303 W. Dickson St.
Douglas, Allen M.	B. S. C.	Senath, Mo.	339 Gregg St.
Droke, Albert H.	B. C. E.	Fayetteville	103 Hill St.
Dyer, Reba	B. A.	Fayetteville	
Ellis, Robert Sidney	B. A.	Fayettville	Dormitory
Eoff, Dennie Jacqueline	B. A.	Bellefonte	Carnall Hall
Etheridge, Young William	B. A.	Hamburg	17 Hill St.
Feldt, Louise	B. A.	Wellston, Mo.	Mrs. Crockett's
Goodwin, William Lynnie	B. A.	El Dorado	Dormitory
Gough, Ivor	B. Mi. E.	Fayetteville	Dormitory
Guynes, William Maurice	B. E. E.	Siloam Springs	Dormitory
Hall, Milton Guy	B. A.	Monticello	746 Douglas St.
Hall, Millard Zachary	B. A.	Mulberry	Main Building
Hatchett, Marvin Pearce	B. A.	Archey	Dormitory
Highfill, Robt. David	B. A.	Argenta	Dormitory
Hogue, Effa Lydia	B. A.	Fayetteville	School St.
Hon, Lucy Evelyn	B. A.	Fort Smith	Carnall Hall
Hughes, Jack Lewis	B. A.	Waldron	W. Dickson St.
Hughes, John Lockhart	B. A.	Benton	
Humphreys, Hugh Hanison	B. C. E.	Fayetteville	
Hutchins, Robert Morris	B. A.	Augusta	Dormitory
Hyatt, Charles L.	B. A.	Paragould	Dormitory
Jordan, Floss T.	B. A.	Fayetteville	17 Hill St.
King, Harry	B. A.	Van Buren	Dormitory
Knox, Virginia Densmore	B. A.	Monticello	Carnall Hall
Lea, Roland A.	B. E. E.	Fayetteville	225 East St.
Lee, Roland B.	B. A.	Clarendon	213 N. Church St.
Manning, Gladys	B. A.	Little Rock	Washington Ave.
Marks, James Alfred	B. S. A.	Springdale	University Greenhouse
Martin, Herbert Bradley	B. A.	Warren	Dormitory
McCartney, Mary Isabelle	B. A.	Fayetteville	340 N. College Ave.
McClain, Arthur	B. S. C.	De Queen	Dormitory
Metcalfe, Clyde Hill	B. A.	Horatio	Dormitory
Mitchell, George W.	B. C. E.	Greenway	Dormitory
Morris, Ben Burns	B. A.	England	W. Dickson St.
Philpot, Eugene Mason	B. C. E.	Pine Bluff	Sigma Nu House
Prall, Beatrice	B. A.	Hope	Carnall Hall
Rye, William Gordon	B. E. E.	Russellville	Dormitory
Savage, Dwight LeLand	B. A.	Carlisle	Dormitory
Sedwick, Benjamin F.	B. C. E.	Fayetteville	342 St. Charles St.
Shane, John Cecil	B. A.	Paragould	Dormitory
Sheffield, Howard Clinton	B. A.	Oakland, Tenn.	Dormitory
Shipley, R. Earl	B. C. E.	Booneville	Dormitory
Sly, Altho Glenn	B. A.	Pawnee City, Neb.	Dormitory
Smith, Myron Francis	B. E. E.	De Queen	Dormitory

Name	Course	Home Address	City Address
Smith, Roy Dallas	B. A.	Fayetteville	
Southworth, James Richmond	B. S. A.	Fayetteville	
Thomas, Andrew Jackson	B. A.	Fayetteville	603 Leverette St.
Thomas, Maud	B. A.	Fayetteville	603 Leverette St.
Thompson, Ethel May	B. A.	Gentry	U. of A. Infirmary
Tompkins, Charles H.	B. A.	Prescott	Sigma Chi House
Tovey, Edwin Clair	B. C. E.	Fayetteville	616 Ida Ave.
Vaughan, Rosebud Mable	B. A.	Lockesburg	Carnall Hall
Veazey, Julia Ann	B. A.	Fayetteville	612 W. Dickson
Warner, Cecil Randolph	B. A.	Fort Smith	324 College Ave.
Webb, Willa Louise	B. A.	Fayetteville	369 Gregg St.
Wheeler, Samuel Burke	B. A.	Fayetteville	
Wilder, Solon Franklin	B. A.	Fort Smith	K. A. House
Wilkes, William Norman	B. A.	Augusta	Dormitory
Wilkerson, Sam Charles	B. E. E.	Morrilton	Kappa Sigma House
Willson, Thomas Reed	B. C. E.	Ola	K. A. House
Wilson, Tom Cobb	B. A.	Washington	Sigma Nu House
Wolf, Bess Pauline	B. A.	Fayetteville	Mt. Nord
Wright, Edna Aramenta	B. A.	Fayetteville	213 Block St.
Yocum, Henry Scott	B. A.	El Dorado	Dormitory
			Total, 93

## Juniors.

Ambrose, Wiley Harvey	B. A.	McAlister, Okla.	Sigma Chi House
Armitage, J. Gordon	A. A.	Harrison	Dormitory
Austin, Roy Moore	B. A.	Charleston	Dormitory
Badenelli, Eugene Bard	B. C. E.	Wynne	Dormitory
Baker, Rufus Kate	B. A.	Pocahontas	Dormitory
Blackshare, Lena Ellis	B. A.	Fayetteville	117 W. Lafayette St.
Blackshare, Jennie Lacy	B. A.	Fayetteville	117 W. Lafayette St.
Blakely, Gervas Thomas	B. A.	Coal Hill	Dormitory
Bragg, Peter Newport	B. A.	Chidester	Dormitory
Brodie, Phil H.	B. A.	Van Buren	517 College Ave.
Brewer, Mack Hamilton	B. C. E.	Murfreesboro	Dr. D. Y. Thomas'
Bryan, Frank	B. M. E.	Nelson, Okla.	17 Hill St.
Butler, Vohl	B. C. E.	Culver, Indiana	Dormitory
Carter, Ollie	B. C. E.	Murfreesboro	Dr. D. Y. Thomas'
Caudle, Reuben D.	B. A.	Scottsville	Dormitory
Cook, Benjamin Stanley	B. A.	Texarkana	Kappa Sigma House
Collins, Alice Gwendolen	B. A.	De Queen	Carnall Hall
Corbell, Oscar M.	B. A.	Charleston	Dormitory
Coward, Lillie Belle	B. A.	Warren	Carnall Hall
Croxdale, Ressie Webster	B. A.	Fayetteville	703 W. Dickson
Davis, Willie Cleveland	B. A.	Greenwood	Dormitory
Dickinson, John Allen	B. M. E.	Little Rock	324 College Ave.
Dortch, George L.	B. E. E.	Scotts	324 College Ave.
Ellis, Oscar Ferguson	B. C. E.	Fayetteville	312 W. Lafayette Ave.
Flinn, Heber Howard	B. A.	Little Rock	Sigma Nu House
Gates, David Allen	B. A.	Little Rock	Sigma Nu House
Green, Thomas Andrew	B. S. A.	Mineral Springs	Dormitory



Name	Course	Home Address	City Address
Harlan, Earl T.	B. C. E.	Searcy	Dormitory
Harrington, Marie B.	B. A.	Fort Smith	Carnall Hall
Harrison, Jere F.	B. E. E.	Muskogee, Okla.	Dormitory
Harrod, Lem Boyd	B. A.	Little Rock	Mrs. Mary Austin's
Highfill, Herbert H.	B. A.	Paragould	Dormitory
Hilt, Emma Frances	B. A.	Fayetteville	313 Lafayette Ave.
Hirst, Claude Marvin	B. A.	Weaver	Dormitory
Holloway, Claudius, V.	B. A.	Lonoke	Dormitory
Hulse, Leonard Ross	B. E. E.	Charleston	Dormitory
Hunter, Lowell Wilsey	B. M. E.	Little Rock	Dormitory
Joiner, Joseph William	B. A.	Magnolia	Dormitory
Jones, Leah Thompson	B. A.	Newport	Carnall Hall
Kelton, Fannie	B. A.	Fayetteville	South of Town
King, Arthur	B. C. E.	Van Buren	Dormitory
Knox, Robert Carr	B. A.	Monticello	339 Gregg St.
Laughinghouse, Newman R.	B. E. E.	Forrest City	
Lee, Shelly H.	B. C. E.	De Queen	Dormitory
Lenker, Leslie E.	B. E. E.	Leslie	616 Ida Ave.
Lincoln, Sanford Elisha	B. A.	Van Buren	Dormitory
Martin, Aubert	B. A.	Warren	Dormitory
McCartney, Ruth	B. A.	Fayetteville	340 N. College Ave.
McCarty, Ralph L.	B. E. E.	Fayetteville	
McCoy, Bess Cecelia	B. A.	Fayetteville	
McCoy, Jessie Marie	B. A.	Fayetteville	
McGill, Samuel Davis	B. M. E.	Chidester	Dormitory
McLeod, Laurence S.	B. A.	Smithville	Dormitory
Miles, Walter Carrigan	B. A.	El Dorado	Dormitory
Moody, William Franklin	B. E. E.	Rison	Dormitory
Morrison, Arthur Brown	B. M. E.	Fayetteville	763 W. Dickson St.
Morton, Jenny	B. A.	Fort Smith	Carnall Hall
Norris, Claire	B. A.	Hamburg	Carnall Hall
Orton, Myrtle	B. A.	Siloam Springs	424 Willow St
Orerholt, James Irwin	B. A.	Fayetteville	
Paul, Claude Willis	B. E. E.	Fort Smith	727 Douglas St.
Penix, W. Roy	B. A.	Jonesboro	Dormitory
Pettigrew, Lucile Aldridge	B. A.	Charleston	Carnall Hall
Pettigrew, Ruth	B. A.	Charleston	Carnall Hall
Pittman, May	B. A.	Greenwood	Carnall Hall
Plemmons, LeeRoy	B. C. E.	Oden	2 Duncan St.
Pulliam, Lucy	B. A.	Osceola	628 W. Maple St.
Pulliam, Nelson	B. A.	Osceola	628 W. Maple St.
Purcell, Walter Ray	B. A.	Warren	Dormitory
Pye, Ruth E.	B. A.	Little Rock	Carnall Hall
Reed, Norman Bates	B. A.	Fayetteville	304 College Ave
Renick, Ethel Louise	B. A.	Fayetteville	
Rhea, William Harris	B. E. E.	Fayetteville	W. P. McNair's
Rhea, Powell M.	B. A.	Fayetteville	W. Dickson St.
Robertson, James	B. A.	Wynne	
Robinson, Agnes	B. A.	Clarksville	Carnall Hall
Rogers, L. H.	B. E. E.	Fayetteville	340 Arkansas
Sanderlin, David B.	B. A.	Warren	Dormitory

Name	Course	Home Address	City Address
Schoolfield, Eunice	B. A.	Fayetteville	620 Ida Ave.
Smith, Lucile Isabel	B. A.	Fayetteville	114 S. College Ave.
Smith, Maud Isabel	B. A.	Springdale	Carnall Hall
Southworth, Geo. Quinland	B. A.	Fayetteville	Highland Ave.
Stallings, John Robert	B. C. E.	Morrilton	5 So. School St.
Stout, Samuel Rodman	B. A.	Rogers	Dormitory
Stover, Don Alanson	B. E. E.	Rogers	Dormitory
Taff, Nollie O.	B. A.	Waldron	Dormitory
Takata, Nina Ichitaro	B. E. E.	Japan	117 Lafayette Ave.
Taylor, John Edwin	B. E. E.	Blevins	Dormitory
Tilley, Irene	B. A.	Fayetteville	15 N. Duncan St.
Vickers, Roy H.	B. S. C.	Fayetteville	Ralston & Scott
Webb, Claude Allen	B. C. E.	Manitou	224 Church St.
Wilson, James H.	B. A.	Bradford	Dormitory
Withers, Clarence Wilford	B. C. E.	Forrest City	620 Ida Ave.
Wolf, Guy Walker	B. A.	Yellville	Washington Hotel
Wood, Olive C.	B. A.	Paris	Carnall Hall
Young, W. T. Clint	B. A.	Jonesboro	Dormitory
			Total, 96

## Sophomores.

Achenbach, Charles Henry	B. E. E.	Alberton, Mont.	Henry Woods'
Alewine, Oscar Monroe	B. S. A.	Atkins	Dormitory
Anderson, Louis I.	L. I.	Hollywood	Dormitory
Atkinson, Elza Roe	L. I.	Bocaw	Carnall Hall
Banks, George H.	B. S. A.	Raines, Tenn.	620 Ida Ave.
Barry, William T.	B. C. E.	Fayetteville	
Barton, William Harvey	B. A.	Cove	Dormitory
Beal, Robet Knott	B. A.	Little Rock	324 College Ave.
Belts, Florence W.	L. I.	Fayetteville	Oak Knoll
Blacklock, C. Edmond	L. I.	Haskell	Dormitory
Blackshare, Lochie D.	L. I.	Fayetteville	417 Vandervente St.
Blackshare, Lena Ellis	B. A.	Fayetteville	417 Vandervente St.
Blakely, Lessie Ray	B. A.	Alex.	Dormitory
Bledsoe, Alva Leona	B. A.	La Crosse	Carnall Hall
Brereton, Blanche	B. A.	Aodus, N. Y.	403 N. College Ave.
Buckley, Sam Spence	B. C. E.	Rogers	Dormitory
Bransford, William H.	B. E. E.	Lonoke	Kappa Sigma House
Burrow, Emma Gene	B. A.	Morrilton	324 College Ave.
Cantrell, Walter Thurman	B. E. E.	Bellefonte	Dormitory
Carter, George Benjamin	B. A.	Rison	Dormitory
Casey, Walter Burton	L. I.	Boxley	Dormitory
Catts, Mary Emily	L. I.	Washington	Carnall Hall
Cherry, James Louis	B. S. A.	Paris	Dormitory
Cochran, Joseph Haney	B. M. E.	Little Rock	College Ave.
Comatser, Raymond C.	B. E. E.	Ozark	Dormitory
Cory, Lucy Frances	B. A.	Little Rock	Carnall Hall
Cotnam, Tarleton	B. A.	Little Rock	Cravens
Coventon, John William	B. A.	Okaland	
Curl, James Leon	B. A.	Monticello	428 College Ave.
Daniel, Lucy May	L. I.	Wilmer	Carnall Hall

Name	Course	Home Address	City Address
Davis, Rachel	B. A.	Washington, D. C.	Carnall Hall
Davis, Charles Malcolm	B. A.	Jonesboro	Kappa Sigma House
Davis, Vernes E.	B. C. E.	Sterling City, Texas	M. E. Cook's
Dillard, Minnie A.	L. I.	Amity	Carnall Hall
Dinwiddie, James A.	B. E. E.	Fort Smith	527 Leverett St.
Douglas, William Edwin	B. E. E.	Galesburg, Ill.	616 Ida Ave.
Drover, Walter H.	B. C. E.	McAlister, Okla.	15 N. Duncan St.
Duncan, William Wirt	B. C. E.	Westville, Okla.	Dormitory
Ellington, Orin	B. E. E.	Magazine	Dormitory
Estes, G. Dan	B. C. E.	Alpena Pass	Dormitory
Evans, William Virgil	B. A.	Benton	339 Gregg St.
Faulkner, Thomas Howard	B. A.	Helena	Harrison's
Fenton, Robt. D.	B. A.	Little Rock	Kappa Sigma House
Files, Frank W.	B. A.	Oak Ridge	Dormitory
Fogg, Joe P.	B. A.	Forrest City	Dormitory
Gerig, Frank Austin	B. C. E.	Arkadelphia	Dormitory
Gist, Joseph E.	L. I.	Franklin	Dormitory
Gladson, Hazel Wade	B. A.	Fayetteville	820 W. Maple St.
Goss, Alpha Lloyd	B. E. E.	Fayetteville	217 W. Meadow St.
Green, William E.	B. A.	Little Rock	Nesbit's
Green, Edward Grandison	B. C. E.	Helena	Sigma Chi House
Gregg, Mildred Louise	B. A.	Fayetteville	129 E. Dickson St.
Greig, Star	B. S. A.	Van Buren	Dormitory
Hackleman, George Lewis	B. A.	Coweta	Dormitory
Hamilton, Andrew Claude	B. C. E.	Fayetteville	2 E. Dickson St.
Hamilton, Etta L.	L. I.	Buckner	Carnall Hall
Harkness, Jessie	L. I.	Fulton	Carnall Hall
Harris, Fannie May	L. I.	Fayetteville	R. F. D. No. 2
Harris, Martha	B. A.	Fayetteville	305 Washington Ave.
Hayes, Elizabeth Love	L. I.	Van Buren	Carnall Hall
Hays, Charles Wentworth	B. E. E.	Fayetteville	101 N. West St.
Herring, Will C.	B. A.	Amity	Dormitory
Highfill, LeeRoy	B. S. A.	Fayetteville	Dormitory
Hilton, Lilbern L.	L. I.	Fayetteville	
Hogan, David Louis	B. C. E.	Hughes Springs, Tex.	Geo. Parson's
Holcombe, Mrs. J. R.	L. I.	Fayetteville	537 Leverett St.
Holt, Joe Berry	B. A.	Harrison	K. A. House
Holtzelaw, Henry	B. A.	Moro	Stanford's
Horton, Ralph	B. A.	Guy	Dormitory
Hudson, Inez	L. I.	Fayetteville	202 Block St.
Hurst, Jefferson Davis	B. A.	Fayetteville	10 Watson Ave
Hutchinson, Aileen	B. A.	Little Rock	Carnall Hall
Hutchinson, Rosemai	B. A.	Little Rock	Carnall Hall
Jacks, Raymond D.	B. A.	Marianna	735 W. Dickson St.
Jackson, Thomas Alonzo	B. A.	Hamburg	124 College Ave.
Johnson, Floy	B. A.	Marianna	Carnall Hall
Jones, Curtis	B. C. E.	Little Rock	Sigma Chi House
Kinsworthy, Burton S.	B. A.	Little Rock	Nesbit's
Kirby, A. Crump	B. A.	Harrison	K. A. House
Lange, Harvey Arnold	B. M. E.	Little Rock	Sigma Nu House
Langston, Zora Lee	B. A.	Vineyard	Carnall Hall



## REGISTER OF STUDENTS

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Name	Course	Home Address	City Address
Laser, Lucile	B. A.	Clarksville	Carnall Hall
Lawson, Lillian	B. A.	Fayetteville	360 Arkansas Ave.
Loomis, Lelia	L. I.	Fayetteville	518 Leverett St.
Loomis, Vena	L. I.	Fayetteville	518 Leverett St.
Marsh, James E.	B. A.	Rosston	Dormitory
McCluer, Robert D.	B. A.	Lincoln	15 N. Duncan St.
McDearmon, Nora	L. I.	Weldon	Carnall Hall
McDowell, J. T.	B. C. E.	Athena	Mrs. Stone's
McHenry, Harvey Watson	B. A.	El Dorado	Dormitory
McIlroy, William Hayden	B. A.	Fayetteville	
McLelland, Clarence	B. A.	Beirne	Dormitory
Medley, William C.	B. A.	Locust Bayou	Dormitory
Meriwether, Lillbourn Hays	B. A.	Paragould	Dormitory
Metcalfe, Roy James	B. A.	Horatio	Dormitory
Millwee, Robert Miles	B. E. E.	Horatio	Dormitory
Moore, Sam William	B. C. E.	Cabot	Dormitory
Moss, Lowell Raymond	B. A.	Little Rock	Prof. Marinoni's
Northum, Ted M.	B. E. E.	Charleston	Dormitory
Oneal, Fred L.	B. E. E.	Rogers	Dormitory
Oneal, Elias Harvey	B. C. E.	Rogers	Dormitory
Oswald, Fred	B. M. E.	Nowata, Okla.	Sigma Nu House
Overton, William Robert	B. C. E.	Greenway	Dormitory
Parcell, Earl Wakeman	B. M. E.	Tampa, Fla.	314 W. Mountain St.
Payne, Richard Hammond	B. E. E.	Forrest City	Sigma Chi House
Pearson, Stella Rowena	L. I.	Fayetteville	537 Leverett St.
Pemberton, Ralph L.	B. C. E.	Scott	339 Gregg St.
Petit, Henry Claude	B. S. A.	Harrison	Dormitory
Pinson, J.			
Pugh, John D.	B. A.	Fordyce	753 W. Dickson St.
Pyeatt, Wallace	B. C. E.	Prairie Grove	Dormitory
Rhyne, Jake O.	B. A.	Foreman	Dormitory
Roark, Granville Wade	B. S. C.	Franklin, Ky.	Capt. Hughy's
Roper, Cornelia	L. I.	Rector	
Richmond, Holman	B. M. E.	Fort Smith	Dormitory
Rye, Vim X.	B. C. E.	Russellville	Dormitory
Sanders, David Thomas	L. I.	Dierks	Dormitory
Scott, Maggie May	L. I.	Helena	Carnall Hall
Sellers, Nina Gertrude	B. A.	Westville, Okla.	537 Leverett St.
Sellers, Arch Yell	B. A.	Westville, Okla.	537 Leverett St.
Shackleford, Charles E.	B. A.	Okolona	Dormitory
Shaw, John Samuel	B. E. E.	Hazen	Dormitory
Skinner, Bernice J.	B. A.	Lockesburg	Dormitory
Smith, Ruth Cleveland	L. I.	Springdale	Carnall Hall
Snell, Edith	B. A.	Harrison	Carnall Hall
Spikes, Alma	B. A.	Pocahontas	Carnall Hall
Steece, Henry Mortimer	B. S. A.	Fayetteville	312 W. Mountain St.
Stewart, Leelon Gustine	B. C. E.	Little Rock	Mrs. Geo. Lake's
Stockburger, Roy R.	B. A.	Fayetteville	
Strickland, George G.	B. S. A.	Atkins	Dormitory
Terry, Ruth	B. A.	Bentonville	324 College Ave.
Thomas, Roy Hillman	B. A.	Cayce, Ky.	Dr. D. Y. Thomas'

Name	Course	Home Address	City Address
Thomas, Fanny	L. I.	Fayetteville	603 Leverette St.
Tilley, Robert Floyd	B. E. E.	Fayetteville	15 N. Duncan St.
Trickett, Claude H.	B. C. E.	Little Rock	
Veazey, Mildred Virginia	L. I.	Fayetteville	642 W. Dickson St.
Vineyard, Hodge B.	B. S. A.	Brinkley	Dormitory
Vinson, Claudia Shaw	L. I.	Davidson, Okla.	Carnall Hall
Waldron, Richard C.	B. A.	Black Rock	Dormitory
Warrick, Florine Ross	L. I.	Van Buren	Carnall Hall
Waskom, Jesse Green	B. A.	Fayetteville	A. J. Ballard's
Watts, Tom S.	B. E. E.	Cincinnati	Dormitory
Watkins, George Wesley	B. E. E.	Harrison	Dormitory
Weigart, George Thurston	B. E. E.	Rector	158 Hill St.
Wheelis, Ray Benton	L. I.	Ashdown	Dormitory
Williams, David Christopher	B. E. E.	Fayetteville	
Williams, Walton Ross	B. A.	Lonoke	Kappa Sigma House
Williams, Guy Ellsworth	L. I.	McKinney, Texas	Cemetery St.
Winfrey, Hugh Lewis	B. A.	Rudy	Dormitory
Wofford, Custer A.	B. M. E.	De Queen	Dormitory
Wood, Jack H.	B. A.	Monticello	228 College Ave.
Wood, John Samuel	B. A.	Fort Smith	K. A. House
Wood, Robert Earl	L. I.	Blevins	Dormitory
Wood, Roy W.	B. A.	Little Rock	327 Washington Ave.
Wooddy, William Watson	B. A.	Fayetteville	346 St. Charles St.
Wortz, Carl Henry	B. A.	Fort Smith	212 N. College Ave.
Wylie, Colen N.	B. A.	Prescott	Dormitory
Yates, Mary	L. I.	Hope	Carnall Hall
			Total, 158

## Freshmen.

Acree, William Frosty	B. A.	Maynard	Dormitory
Alberson, Edwin Charles	B. A.	Stuttgart	W. Maple St.
Ambrose, Roscoe	B. S. A.	Fayetteville	
Anderson, Elmer John	B. M. E.	Louann	Dormitory
Atkinson, Ned	B. C. E.	Fordyce	Dormitory
Baker, Ralph S.	B. A.	Fayetteville	Mrs. Davis'
Banta, Katherine	B. A.	Springdale	Carnall Hall
Barnes, Robert Gedder	B. E. E.	Little Rock	Phelps'
Barton, Mary Garland	L. I.	Turrell	Carnall Hall
Beane, Eunice	B. A.	Rogers	Carnall Hall
Beck, Robert William	B. S. A.	Wynne	Mrs. J. D. Jordan's
Benham, John D.	B. A.	Marianna	Sigma Chi House
Black, Ernest Howard	B. A.	Yellville	Mrs. Jarmon's
Black, Jewell Harp	B. A.	Yellville	41 Rock St.
Blackmun, Ora	B. A.	Fayetteville	2 N. Duncan St.
Blain, Roy	B. E. E.	Camden	620 W. Maple St.
Blain, Bart	B. E. E.	Camden	620 W. Maple St.
Blakely, John T.	B. S. A.	Clarksville	224 Church St.
Blewster, Robert Leon	B. A.	Magnolia	Dormitory
Boner, Robert Perry	B. M. E.	Centerton	Center St.
Booth, Farrar Emory	B. C. E.	Searcy	Dormitory
Bowers, Milton Drew	B. A.	Pocahontas	Dormitory

## REGISTER OF STUDENTS

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Name	Course	Home Address	City Address
Boyd, Frances Leone	B. A.	Fayetteville	520 N. College Ave.
Bradley, Harold Herbert	B. E. E.	Fayetteville	727 Douglas St.
Brown, Joe Real	B. A.	Van Buren	434 College Ave.
Brown, Epps Jr.	B. A.	Des Arc	Dormitory
Browning, John Marvin	B. C. E.	Spring Hill	Dormitory
Bryant, Anna Carolyn	L. I.	Rector	Carnall Hall
Briscoe, Vesta Eileen	L. I.	Harrison	16 S. Duncan St.
Buerkle, John George	B. M. E.	Stuttgart	600 Whitham St.
Bullock, Thomas J.	L. I.	Doner	Dormitory
Bunn, Cade Frank	B. A.	Siloam Springs	213 Block St.
Burkhalter, Lawrence R.	B. E. E.	Higginson	Dormitory
Burrow, David Hiram	B. A.	Morrilton	Dormitory
Campbell, George M.	B. E. E.	Waco, Tex.	303 W. Dickson St.
Carothers, Stuart W.	B. C. E.	Fayetteville	W. Dickson St.
Carroll, Hugh A. D.	B. A.	Valley Springs	C. M. Oliver's
Casey, John E.	L. I.	Boxley	Dormitory
Clark, Madison D.	B. A.	Malvern	Dormitory
Clarke, Robert T.	B. S. A.	Fayetteville	309 W. Center St.
Cook, E. T.	B. C. E.	Fayetteville	West of Town
Cook, James Christopher	B. A.	Texarkana	Dormitory
Cotton, Edmond Wiley	B. S. C.	Ozark	Prof. Wannamaker's
Coventon, John William	B. A.	Oakland	
Crockett, Fred	B. C. E.	Maynard	Dormitory
Croom, Samuel Gaston	B. A.	Dardanelle	Mrs. Williams'
Croxdale, Everett W.	B. A.	Fayetteville	703 W. Dickson St.
Daniel, Fannie	L. I.	Piggott	Carnall Hall
Daugherty, Lucian Day	B. S. A.	Fayetteville	336 St. Charles St.
Davis, Robert Lee	B. A.	Larkin	638 Whitham St.
Davenport, Bessie G.	L. I.	Hartford	Carnall Hall
Decker, Kivia Leona	B. A.	Fayetteville	R. F. D. No. 2
Dennis, Ernest E.	B. A.	Paragould	Dormitory
Dickson, Dee Russell	B. A.	Bentonville	5 W. Center St.
Dowdle, Robert Garland	B. A.	Morrilton	121 W. Dickson St.
Dowell, Henry E.	B. E. E.	Ozark	Mrs. Montgomery's
Downs, Roy Richard	B. C. E.	Fordyce	Dormitory
Dunlap, Robert D.	B. S. A.	Clarksville	Mrs. Davis'
Dunn, Homer W.	B. E. E.	Rogers	Dormitory
Earl, Robert David	B. A.	Morrilton	121 W. Dickson St.
Ellis, Earl	B. M. E.	Fayetteville	104 N. College Ave.
Ellis, Elizabeth E.	B. A.	Fayetteville	Carnall Hall
English, Elbert H.	B. S. A.	Little Rock	Mrs. Harding's
Frazier, Elmer Homer	B. A.	Havana	Dormitory
Funk, Irma Frances	B. A.	Rogers	Carnall Hall
Gannaway, Claude C.	B. E. E.	Warren	Dormitory
Gardner, William Ben.	B. M. E.	Mena	623 Dickson St.
Garvin, Cathleen, Morris	L. I.	Harrison	Carnall Hall
Gates, Margaret Burton	B. A.	Fort Smith	420 N. College Ave.
Gerard, Adolphus S.	B. E. E.	Kansas City, Mo.	700 Frisco
Gibson, Ross Clarke	B. A.	Berryville	Dormitory
Gilliam, E. Bayley	B. A.	Swifton	Dormitory
Gladson, Marion Lenore	B. A.	Fayetteville	820 W. Maple St.



Name	Course	Home Address	City Address
Grady, Robbie W.	B. C. E.	Lockesburg	Dormitory
Graham, Jesse James	B. E. E.	Springdale	
Greenfield, Walter	B. S. A.	Little Rock	* Prof. Marinoni's
Gregory, Wheeler Russell	L. I.	Mexico, Mo.	Dormitory
Hackleman, Eugene Logan	B. A.	Coweta, Okla.	Dormitory
Henry, Elbert Augustus	B. A.	Jacksonville	Dormitory
Holt, Mitchell L.	B. A.	Harrison	229 Block St.
House, Archie Franklin	B. A.	Little Rock	Dr. Johnston's
Huntley, Bruce Wilson	B. C. E.	Kingston	Dormitory
Izard, Letha C.	B. A.	Fayetteville	Washington Hotel
Jackson, Pearle E.	L. I.	Bentonville	311 W. Mountain St.
Joiner, Carrie	L. I.	Magnolia	Carnall Hall
Jordan, Mary E.	B. A.	Newman, Ill.	
Kalb, Allie C.	B. A.	Provo	Dormitory
Kelly, Charles Q.	B. A.	Corning	W. Dickson St.
Kilgore, Vesta B.	B. A.	Amity	Carnall Hall
Killough, Walter Newton	B. A.	Wynne	College Ave.
Kitchens, Herschell Monroe	B. A.	Magnolia	Dormitory
Kneer, Bertha Irene	B. A.	Fayetteville	
Lake, Edward Clay	B. A.	De Queen	Dormitory
Leverett, Percy	B. E. E.	Fayetteville	Whitham St.
Lighton, Dorothy R.	B. A.	Fayetteville	
Ligon, Leora Gertrude	L. I.	Amity	Carnall Hall
Lindsey, Vol Thompson	B. A.	Bentonville	F. W. Peel's
Loving, Robt. Olin	B. C. E.	Pine Bluff	Prof. Marinoni's
Magness, Ernest Beacher	B. A.	Fayetteville	404 W. Maple St.
Magness, Perry Greene	B. C. E.	Magness	
Massey, James William Jr.	B. M. E.	Morrilton	121 W. Dickson St.
Matthews, Jim P.	L. I.	Horatio	Carnall Hall
May, Russell Varnelle	B. M. E.	Little Rock	Prof. Marinoni's
McCarty, Robert Oscar	B. A.	Yellville	Dormitory
McClanahan, George Marion	L. I.	Hope	Carnall Hall
McClanahan, Dell Norris	L. I.	Hope	Carnall Hall
McDearmon, George W.	B. C. E.	Weldon	Dormitory
McFarlane, Robert Harris	B. E. E.	Greenwood	702 W. Maple St.
McGehee, Wiley A.	B. A.	Little Rock	Mrs. Geo. Lake's
McGill, Minto	B. M. E.	Chidester	Dormitory
McGill, Lon H.	B. A.	Bentonville	5 W. Center St.
McGill, Sidney Smith	B. E. E.	Chidester	Dormitory
McMurtrey, Olive H.	L. I.	Rison	Carnall Hall
Milligan, Hazel Maurine	B. A.	Brentwood	E. Mountain St.
Milligan, James Joseph	B. A.	Brentwood	Dormitory
Mitchell, Fred	B. S. A.	Gentry	Dormitory
Mixon, Harvey	B. A.	Atlanta	Dormitory
Moore, Charles James	B. M. E.	Fayetteville	Church & W. Mountain
Moore, Conrad Mitchell	B. S. A.	Siloam Springs	Dormitory
Murphy, William H.	B. A.	Swifton	Dormitory
Nall, Thomas Nathan	B. A.	Sheridan	Dormitory
Nall, Hazel Teresa	B. A.	Mena	Carnall Hall
Norris, Claude Brazil	B. A.	Heavner, Okla.	

Name	Course	Home Address	City Address
Orton, James Wilbur	B. C. E.	Siloam Springs	424 Willow St.
Overholt, Mary Elizabeth	B. A.	Fayetteville	
Page, Elizabeth	B. A.	Winslow	216 E. Lafayette St.
Parsons, Lloyd Chandler	B. A.	Fayetteville	125 E. Dickson St.
Patrick, Katie Clyde	L. I.	Paris	Prof. J. J. Knoch's
Payne, Elbert Erle	B. C. E.	Forrest City	Sigma Chi House
Peachey, John Franklin	B. A.	Siloam Springs	Dormitory
Pennington, Bess	L. I.	Berryville	
Price, John Dale	B. A.	Augusta	420 College Ave.
Porter, Frances E.	L. I.	Fayetteville	515 W. Maple St.
Potter, Rissie Lois	L. I.	Fayetteville	
Potter, Grover Cleveland	B. C. E.	Fayetteville	
Potter, Mabel Melissa	L. I.	Fayetteville	
Potter, H. N.	L. I.	Fayetteville	
Potter, Winnie K.	L. I.	Fayetteville	
Pulley, Ellsworth Conley	B. C. E.	Fayetteville	226 N. Block St.
Puterbaugh, George Lewis	B. C. E.	Mackinaw, Ill.	Sigma Nu House
Raleigh, James Anthony	B. A.	Little Rock	Mrs. Coffey's
Ratliff, Emmet M.	B. C. E.	Healing Springs	Dormitory
Ray, Charles Hubert	L. I.	Griddithville	Dormitory
Reed, Kate,	L. I.	Jonson	Carnall Hall
Reinsch, Oscar Rudolph	B. A.	Stuttgart	803 W. Dickson St.
Revel, Duke	B. S. A.	Augusta	Sigma Chi House
Robbins, Edwin	B. A.	Searcy	
Robinson, Lillian Alice	L. I.	Clarksville	Carnall Hall
Robinson, John Paul	B. A.	Wynne	Rader House
Rogers, Vivien	L. I.	Reels Bluff	Carnall Hall
Rogers, Gideon Kirk	B. A.	Pottsville	Dormitory
Rossner, Earl	B. A.	Little Rock	224 Church St.
Roy, Marco B.	B. E. E.	Russellville	Dormitory
Rudell, Jude Erastis	B. E. E.	Hackett	537 Leverett St.
Rudolph, Freda Frances	B. A.	Fayetteville	R. F. D. No. 2
Schuh, Russell Louis	B. M. E.	Paragould	Dormitory
Schalchlin, George W.	B. E. E.	Little Rock	Dormitory
Sharp, James Edwin	B. S. C.	Prairie Grove	Dormitory
Shaver, Dorothy	B. A.	Mena	Carnall Hall
Short, Gilbert Young	L. I.	Maynard	Dormitory
Sikes, Fred Lee	B. A.	Rogers	Dormitory
Simpson, Ruth	B. A.	Paragould	Mrs. S. P. Weigart's
Sinclair, Christopher B.	B. A.	Searcy	
Smith, Hubert	B. C. E.	Searcy	Dormitory
Snell, Frank Gerald	B. C. E.	Harrison	904 W. Maple St.
Snodgrass, George Max	B. E. E.	Prairie Grove	354 N. West St.
Sprulock, Gerald	B. E. E.	Fayetteville	Mock St.
Stallings, David Grady	B. E. E.	Hartshorne, Okla.	Dormitory
Stevenson, Charles Earle	B. M. E.	Bentonville	628 W. Maple St.
Swiley, George William	B. C. E.	El Dorado	Dormitory
Thornton, Robert E.	B. M. E.	Hot Springs	Dormitory
Titus, Ira Ralph	B. C. E.	Mena	623 Dickson St.
Tucker, Moseley Clarence	B. S. A.	Fayetteville	Experiment Sta.
Turner, Adlai Stevenson	B. C. E.	Lockesburg	Dormitory

Name	Course	Home Address	City Address
Tyson, Harvey J.	B. S. A.	Camden	Dormitory
Vandun, Charles Alexander	B. A.	Stuttgart	803 W. Dickson St.
Volentine, Paul	B. E. E.	Charleston	Dormitory
Watson, Gussie Dell	L. I.	Amity	Carnall Hall
Weidemeyer, Harry Adam	B. S. A.	Argenta	Reid's
Whitmore, William Hugh	B. A.	Gurdon	W. O. Dritt's
Wilcoxon, Alva	<del>B. M. E.</del>	Harris	
Williams, Ivan B.	B. E. E.	Fayetteville	326 N. West St.
Wilson, Ruth Pearce	L. I.	Schooley	Carnall Hall
Wilson, Robert Andrew	B. C. E.	Monmoth, Ill.	Dormitory
Wilson, Rollins McCulloh	B. E. E.	Prairie Grove	240 Arkansas Ave.
Winfrey, John Simon	B. A.	Rudy	Dormitory
Wisenor, William Oliver	B. A.	Farmington	Dormitory
Wolf, Wyatt Horton	<del>B. E. E.</del>	Mountain Home	
Wooddy, Lemuel Dale	B. C. E.	Fayetteville	346 St. Charles St.
Wright, Kathleen L.	B. A.	Little Rock	Carnall Hall
Wyche, Gladys C.	B. A.	Montgomery, Ala.	Carnall Hall
Young, Leslie Gordon	B. M. E.	Stilwell, Okla.	Dormitory
			Total, 192

## Special.

Name	Home Address	City Address
Austin, Judson W.	Fayetteville	Buchanan St.
Ball, Samuel Milliard	Ravenden	W. Center St.
Bradford, Wylie Ernest	Haynes	Church St.
Davis, Hillery Carter	Blytheville	Sigma Chi House
Dowell, Aloysin S.	Walnut Ridge	Kappa Sigma House
Harris, Ruth Everette	Monticello	Carnall Hall
Hinton, Leonard, E.	Stamps	Dormitory
Huggins, Frank	Ozark	315 Ralston St.
Isom, Mather	Jonesboro	303 W. Dickson St.
Jackson, Allan Ray	Paragould	303 W. Dickson St.
Keith, Allen A.	Van Buren	Dormitory
McPherson, Ralph Russell	Stuttgart	Dormitory
Meyer, Norcliffe Sanford	Malvern	Dormitory
Montague, Charles W.	Van Buren	Dormitory
Moore, Norman Price	Van Buren	W. Dickson St.
Murphy, Jeffie Roberts	Little Rock	Carnall Hall
Newman, Archie Lee	Marion	740 W. Maple St.
Nixon, Coy Madison	Jacksonville	Dormitory
Norberry, Victoria	Fayetteville	117 College Ave.
Riggs, Timberline W.	Fayetteville	9 Center St.
Simco, Thomas Frank	Fayetteville	318 Lafayette Ave.
Stearns, Harry L.	Fayetteville	
Sutton, George Houston	Fayetteville	121 W. Dickson St.
Trigg, Bob Edward	Fayetteville	
Tunnah, Brunson	Little Rock	Creekmore's
Umholtz, Amos Jay	Tum	Dormitory
Vann, John Si.	Fayetteville	Sigma Chi House
Vestal, Walter	Little Rock	303 W. Dickson St.
Vickers, H. A.	Fayetteville	Scott and Ralston Sts.



Name	Home Address	City Address
Walls, Shep R.	Lonoke	Kappa Sigma House
Wood, Roy Gilbert	Fort Smith	K. A. House
Young, Paul H.	Hickory Ridge	Dormitory
		Total, 32

## SHORT COURSE IN ELECTRICAL ENGINEERING.

## First Year.

Baggett, Willie Hugh	Fayetteville	
Benton, Sidney	Fayetteville	109 Block St.
Bowen, Howard Russell	Bentonville	Highland Ave.
Collins, A. J.	Foreman	Dormitory
Deane, George F.	Fayetteville	R. F. D. No. 2
Estes, Robert Clyde	Russellville	Dormitory
Lowe, John Marion	DeWitt	Rev. Willis
Norwood, Raymond Alexander	Hope	21 Spring St.
Pye, Isaac Allen	Little Rock	Dormitory
Shelton, Martin Lynne	Fayetteville	
Sifford, Jack	Camden	17 Hill St.
Silbernagel, Louis L.	Pine Bluff	420 N. College Ave.
Thomas, Clinton Brecknridge	Fayetteville	603 Leverett St.
Watts, M. P. Jr.	Camden	Dormitory

## Second Year.

Baker, Louis Spaulding	Fayetteville	523 Washington Ave.
Ellis, George Henry	Hamburg	735 W. Dickson St.
Pemberton, Harold Jennings	Scott	Sigma Nu House
Pendleton, Carl Macon	Junction City	Dormitory
		Total, 18

## SHORT COURSE IN MECHANICAL ENGINEERING.

Berry, John Neill	Pleasant Hill	Dormitory
Davis, John	Harris	
Dickinson, Raymond Virgil	Horatio	Dormitory
Leinen, Edward Leo	Hot Springs	640 Leverett St.
		Total, 4

## THE CONSERVATORY OF MUSIC AND ART.

Acree, H.		
Adams, Helen	Kansas City	Carnall Hall
Adams, Dr. C. F.	Fayetteville	East St.
Albersen, Lydia	Stuttgart	W. Maple St.
Bauerlein, Beatrix	Camden	Carnall Hall
Bell, Mable	Fayetteville	132 E. Spring St.
Bishop, Corinne	Fayetteville	
Blackshire, Deane	Fayetteville	417 Vandeventer St.
Brennan, Mildred Francis	Fayetteville	120 N. Block St.
Biscoe, Vesta Eileen	Harrison	16 S. Duncan
Brown, Esther F.	Fayetteville	502 N. College Ave.
Case, Georgia Irene	Mt. View	Carnall Hall
Castleberry, Annice	Salem	Carnall Hall

Name	Home Address	City Address
Cobb, Vivien	Fayetteville	Leverett St.
Cochran, Mary Neelly	Paris	Carnall Hall
Collins, Nell	De Queen	Carnall Hall
Dargan, Maugerite	Paris, Texas	Carnall Hall
Davis, Brickell	El Paso	17 Hill St.
Davis, Mable	Fayetteville	420 Arkansas Ave.
Depue, Mrs. DeWitt	Fayetteville	
Devaney, Hallie	Fayetteville	11 W. Dickson St.
Dodge, Alice Maugerite	Coweta, Okla.	Carnall Hall
Flint, Norene	Clement City, Mich.	223 E. Lafayette St.
Gillespie, Virgie E.	Osceola	Carnall Hall
Greever, Mrs. Garland G.	Fayetteville	753 W. Dickson St.
Hall, Virginia	Fayetteville	212 East St.
Hall, Mrs. E. F.	Fayetteville	College Ave.
Hall, Julien	Fayetteville	212 East St.
Harris, Mrs. E. F.	Fayetteville	
Hight, Alice	Fayetteville	218 N. East St.
Hobbs, Alice	Rogers	
Howell, Rachel	Rogers	Highland Ave.
Hoyt, Blanche E.	Galesburg, Ill.	Carnall Hall
Hughes, Verda	Fayetteville	R. F. D. No. 1
Hulse, Maud	Fayetteville	Maple St.
Hulse, Mack	Fayetteville	Maple St.
Landrum, Eunice A.	Fayetteville	Dickson St.
Leming, Lyda	Waldron	Carnall Hall
Leverett, Madge	Fayetteville	Whitham St.
Lewis, Ida B.	McKinney, Texas	Carnall Hall
Lewis, Jennie Day	Prescott	Carnall Hall
Lossow, Marguerite Rose	Fayetteville	219 East St.
Lucas, Julia M.	Fayetteville	
Lucas, Camille Katherine	Little Rock	Carnall Hall
Maloney, Orlean	Monticello	Carnall Hall
Mayes, Ruth	Fort Smith	Carnall Hall
McFarlane, Maugerite	Fayetteville	702 W. Maple St.
McRae, Evelyn	Hope	Carnall Hall
Metzger, Jule G.	Esterville, Iowa.	Carnall Hall
Mock, Genevieve Eleanor	Fayetteville	Mt. Nord
Morton, Winifred	Fayetteville	512 Washington Ave.
Norwood, Gladys Mazelle	Fayetteville	
Oates, Eunice	Fayetteville	
Oxford, Lela May	Fayetteville	
Phipps, Vida	Fayetteville	
Price, Evadna Marion	Fayetteville	509 N. College Ave.
Ramsey, Gene	Fayetteville	324 College Ave.
Ramsey, Marion Adele	Fayetteville	324 College Ave.
Rees, Lillian	Fayetteville	118 E. Dickson St.
Rogers, Julia Ann Dixie	Fayetteville	340 Arkansas Ave.
Russell, Fannie Glover	Marianna	159 Hill St.
Skaggs, Norris	Fayetteville	
Skaggs, Cuba May	Fayetteville	
Smith, Gladys	Fayetteville	110 South College Ave.

Name	Home Address	City Address
Toler, Maude Frances	Havana	Carnall Hall
Trent, Ruth	Fayetteville	218 Church St.
Trimble, Susie	Harrison	Carnall Hall
Vann, Frances Moe	Fairland, Okla.	Carnall Hall
Wallace, Aboline Margaret	Fayetteville	215 E. Dickson St.
Wade, Jessie	Fayetteville	11 E. Dickson St.
Ward, Alice Preston	Marvell	Carnall Hall
Watt, Velma	Quinton, Okla.	Carnall Hall
Watson, Sarah Gertrude	McAlister, Okla.	Carnall Hall
White, Louise Cheatham	Prescott	College Ave.
Willard, Eva	Fayetteville	Carnall Hall
Wilson, Margaret	Fayetteville	522 W. Maple St.
Wommock, Inez	De Queen	Carnall Hall
		Total, 77

## Sub-Freshman Class

Akin, Chas. Henry	A. McKinney, Texas	Cemetery St.
Anderson, Jasper Ray	E. Green Forest	W. Maple
Atkinson, Glenn Sarvent	E. Pine Bluff	Dr. R. B. Willis'
Austin, Mary Louise	A. Conway	Buchanan St.
Baker, Adlai Stevenson	A. Mountain Home	803 W. Dickson
Barry, Edna	A. Fayetteville	753 W. Dickson
Bell, John Edward	E. Chidester	Dormitory
Benson, Lawrence	E. Fayetteville	113 Lafayette Ave.
Blackshire, John Osmer	A. Fayetteville	417 Vandeventer St.
Bowen, Ed	L. I. Ravenden Springs	Dormitory
Bray, Ernest Richard	A. Senath, Mo.	303 W. Dickson
Brennan, Dorothy Katheryne	A. Fayetteville	120 Block St.
Bridges, Garvin Ray	A. Kedron	Hilton's
Bridges, Peter M.	E. Pine Bluff	727 Douglas St.
Brown, Leroy Walton	E. Cabot	Dormitory
Bryant, Anna Carolyn	L. I. Rector	Dormitory
Bunch, William Larkin	A. Kingston	Dr. Luther's
Burke, Graham	A. Helena	Sigma Chi House
Carley, Frank Edward	E. Haileyville, Okla.	Dormitory
Carroll, John Charles	A. Trull	Dormitory
Castleberry, Edmon Ealey	A. Salem	W. Maple
Chryst, Mary	L. I. Fayetteville	309 Center
Clark, Lenora Dee	L. I. Berryville	Dormitory
Cobb, Vivien	A. Fayetteville	803 W. Dickson
Coffey, Jewell	A. Fayetteville	629 W. Dickson
Cooper, Robert Rennard	E. Walnut Ridge	214 W. Dickson
Croxdale, Earl	A. Fayetteville	703 W. Dickson
Croxdale, Everett	A. Fayetteville	703 W. Dickson
Davis, Lucile	A. Lowell	224 Church St.
Davis, Richard Hoyt	A. Clarksville	224 Church St.
Decker, Clercia	A. Fayetteville	R. F. D. No. 2
Dolby, James O.	A. Lake Charles, La.	740 Maple
Driver, Marion Winfred	A. Osceola	Leverett St.
Dunn, Joseph Clark	E. Warren	Dormitory



Name	Course	Home Address	City Address
Eidson, Salley Marjory	A.	Fayetteville	409 Lafayette
Ellis, Robert Alvin	L. I.	Hindsville	324 College Ave.
Emerson, Harry Allen	L. I.	Clinton	Dormitory
Flint, Norine	C.	Cement City, Mich.	223 E. Lafayette
Fobres, Neil Norton	E.	Garvin, Okla.	Dormitory
Funkhouser, Virginia E.	A.	Summers	Dormitory
Gammill, Emmett	E.	Fayetteville	99 Hill St.
Garrett, Claude Wallace	A.	Huntsville	Clyde Stamts'
Gean, Bernard	A.	Sheridan	Dormitory
Gibson, James Martin	E.	Huttig	Dormitory
Golden, James Wilton	E.	Greenway	Mrs. Stanford's
Goodlet, Thurman	E.	Corinth	W. Dickson
Goodson, Harry W.	L. I.	Fauke	Dormitory
Gravette, Ollie	A.	Harrisburg	Dormitory
Gregg, Pansy	A.	Fayetteville	323 Lafayette
Green, William Ben	A.	Fayetteville	623 Dickson
Gresham, Geo. Greatiano	A.	Clio	E. Dickson
Grimes, Odus Earl	A.	Laketon, Texas	Dormitory
Hackworth, Pat Dean	E.	Magnolia	Dormitory
Hamilton, Francis	A.	Fayetteville	229 Church St.
Harding, Chester Rufus	E.	Fayetteville	357 Washington Ave.
Harding, Eugene Wiskom	E.	Fayetteville	357 Washington Ave.
Hatchett, Ezra E.	A.	Clinton	Dormitory
Henry, LeRoy	A.	Lake Charles, La.	740 W. Maple St.
Herndon, Johnnie	L. I.	Walnut Hill	Dormitory
Hilton, Esther Childs	A.	Fayetteville	409 E. Lafayette
Hight, Alice	A.	Fayetteville	218 East St.
Hodges, Royal Thomas	E.	Westville, Okla.	Dormitory
Hogue, Alfred A.	A.	Hot Springs	Dormitory
Holmes, George	A.	Rison	Mr. Jordan's
Huber, Casper Albrey	E.	Weiner	
Hughes, Martha Lee	A.	Waldron	807 Hill St.
Humphries, Francis Aldridge	E.	Fayetteville	14 E. Lafayette St.
Huxtable, Frank Barton	A.	Blythsville	Sigma Chi House
Irby, Nolan Meaders	L. I.	Blue Mountain	Clifford Boles'
Jacks, Thomas Howard	A.	Helena	
Jamison, Claudine E.	A.	Marion	Dormitory
Jeffrey, Neill	L. I.	Desha	Dormitory
Johnson, Jas. Virgil	A.	Marianna	753 W. Dickson
Johnson, Nelle D.	A.	Hackett	643 Leverette
Jordan, Lena	A.	Fayetteville	17 Hill St.
Keith, Marvin	A.	Malvern	Dormitory
Kennard, Ralph Powell	A.	Fayetteville	417 Lafayette
Kimbrough, Ethel	A.	Dutch Mills	629 W. Dickson
Kirby, Elton	A.	Paragould	Dormitory
Knoch, Elmo	E.	Fayetteville	402 College Ave.
Lacey, Mabel Lee	C.	Elmo	Dormitory
Lawson, Hugh Mortimer	A.	Fayetteville	360 Arkansas Ave.
Lester, Ed F.	Agr.	Lewisville	122 N. East St.
Lester, Martin O.	A.	Lewisville	J. D. Williams
Liebolt, Lucile	A.	Fayetteville	R. F. D., No. 2

## REGISTER OF STUDENTS

221

Name	Course	Home Address	City Address
Likins, Roy Douglas	A.	Harrisburg	Dormitory
McAdams, Alberta	C.	Fayetteville	201 E. Dickson
McCulloch, Richard	A.	Little Rock	Prof. Furtall's
McFarlane, Margaret	C.	Greenwood	702 W. Maple
McFarlane, Robert Harris	E.	Greenwood	702 W. Maple
McFarlane, William D.	A.	Greenwood	702 W. Maple
McGill, Walter Greenfield	A.	Chidester	Dormitory
McIlroy, Cornelia Mae	C.	Fayetteville	W. Dickson
McPherson, Ralph Russell	Agr.	Stuttgart	Dormitory
McRoy, Raymond Paul	A.	Fayetteville	613 Willow
Merrill, Mabel	L. I.	Beaumont, Texas	Duncan St.
Milburn, Mabelle	C.	Fayetteville	20 E. Dickson
Millwee, Fay Bruce	A.	Horatio	Dormitory
Moore, James Clifford	E.	Cincinnati	Dormitory
Moore, Katusue	C.	Fayetteville	753 W. Dickson
Morgan, Charles Samuel	A.	Salisaw, Okla.	Mrs. Plummer's
Morgan, John Harry	Agr.	Salisaw, Okla.	Mrs. Plummer's
Newman, Archie Lee	A.	Marion	740 W. Maple
Oliver, J. W.	A.	Eureka Springs	109 School St.
Overholt, Rolin David	A.	Fayetteville	
Poff, Albert	A.	Jonesboro	Dormitory
Pennington, Cornelius	L. I.	Fayetteville	
Pennington, Ward	L. I.	Fayetteville	
Peter, Oma Cecelia	L. I.	Turner	Dormitory
Phillips, Henry Elbert	E.	Gravette	Dormitory
Plunkett, Charles E.	A.	Locust Bayou	Dormitory
Pope, Abner Andrew	A.	Walnut Ridge	214 W. Dickson
Price, Oscar Gibson	L. I.	Rector	Dormitory
Quertermous, Harry W.	A.	DeWitt	R. B. Willis'
Babon, Edward Ray	A.	Bokoshe, Okla.	Leverette St.
Roberts, Katherine	C.	Holly Grove	Dormitory
DeRoulhac, Geo.	A.	Fayetteville	763 W. Dickson
Russell, Fannie Glover	A.	Marianna	159 Hill St.
Sample, Leslie Allen	E.	Grand Cane, La.	
Schoolfield, John L.	E.	Fayetteville	620 Ida Ave.
Scroggin, Ben	Agr.	Morrilton	
Sedwick, Herbert Payne	E.	Fayetteville	342 St. Charles St
Seidel, Emil	C.	Eureka Springs	213 Block St.
Silliman, William E.	A.	Raiford	Dormitory
Shipley, Daniel Webster	L. I.	Fayetteville	R. F. D. No. 4
Shipley, Nellie	L. I.	Fayetteville	R. F. D. No. 4
Shultz, Louise Virginia	A.	Fayetteville	503 Willow St.
Skaggs, Cuba May	C.	Fayetteville	313 College Ave.
Smith, Calvin Sidney	A.	De Queen	Dormitory
Smith, Earl Webster	A.	Fayetteville	N. College Ave.
Smith, Lee R.	A.	Laketon, Texas	Dormitory
Smith, Lena	A.	Fayetteville	114 S. College
Sparks, Claud Lee	A.	Harrisburg	620 Ida Ave.
Sparks, Edgar Benton	E.	Harrisburg	620 Ida Ave.
Spencer, Gertrude	L. I.	Lockhart	Mrs. O. M. Black's
Stevenson, Earle Upshaw	A.	Marianna	Sigma Chi House

Name	Course	Home Address	City Address
Stewart, Jessie	A.	St. Paul	J. F. Charlesworth
Stone, Marion	A.	Fayetteville	357 College Ave.
Strickland, John O.	Agr.	Atkins	Dormitory
Stuckey, Helen	A.	Fayetteville	Dormitory
Talley, Louis S.	Agr.	Atkins	
Tatum, Stonewall	A.	Bluffton	Dormitory
Thompson, Miles Gilmore	A.	Gilmore	348 Roleson
Trickett, Daily V.	E.	Booneville	620 W. Maple
Tunnah, Brunson	Agr.	Little Rock	Mrs. Creekmore's
Vestal, Edna Vincent	C.	Statler	Dormitory
Wallin, J. Lawson	A.	Sheridan	Dormitory
Warren, Chas. Isaiah	E.	Black Rock	Dormitory
Wasson, Artie	L. I.	Westville, Okla.	537 Leverette
Watters, Robt. Franklin	A.	Havana	Dormitory
Webb, Miles	A.	Clarksville	
White, Charles Thomas	E.	Hot Springs	620 Ida Ave.
Wiggins, Sam	A.	Beloit, Miss.	113 W. Lafayette
Willard, Eva	A.	Fayetteville	Dormitory
Willard, Rees Wellenorf	E.	Fayetteville	122 N. East St.
Williams, Josephine	C.	Fayetteville	310 Washington
Williams, Ruth	L. I.	Fayetteville	820 Douglas St.
Wilson, Donald Deane	A.	Fayetteville	522 W. Maple
Wilson, James Fred	A.	Ola	124 College Ave.
Wilson, Walter	E.	Ward	Mrs. Morrison's
Winfrey, Oscar Miles	A.	DeWitt	Dormitory
Woody, Sue	A.	Fayetteville	346 St. Charles St.
Wright, Abijah Wolford	A.	Olena	
			Total, 162

### Summary of Students.

Graduates .....	9
Seniors .....	93
Juniors .....	96
Sophomores .....	158
Freshmen .....	192
Special students .....	32
Students in short courses in engineering.....	22
Students in the Conservatory .....	77
Total number of collegiate and Conservatory students....	679
Total number of preparatory students .....	162
Unclassified .....	27
Students in summer session .....	98
Total number of students at Fayetteville .....	966
Students in the Medical School (Little Rock).....	171
Students in the Law School (Little Rock).....	75
Students in the Branch Normal College (Pine Bluff).....	305
Total number of students in the University of Arkansas..	1517



## DEGREES

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On Commencement Day, June 8, 1910, degrees and certificates were conferred by the trustees of the University of Arkansas as follows:

### Doctor of Laws.

Charles Foster Smith.

### Master of Science.

H. H. Holtzclaw.

### Civil Engineer.

Walter Combs.

### Electrical Engineer.

H. H. Wilson.

### Bachelor of Arts.

J. H. Atkinson,  
P. W. Bailey,  
D. R. Barton,  
A. J. Barrett.  
I. W. Blacklock,  
J. L. Bledsoe,  
S. J. Campbell,  
Nama Carter,  
Louise Cheever,  
Virginia Childress,  
Norman Coyle,  
May Curl,  
Olga Davis,  
Opal Davis,  
R. L. Davis,  
Frances DeWitt,  
J. D. Freeman, Jr.  
T. B. Freeman,  
P. B. Gardner,  
F. J. George,  
I. L. George,

J. E. Goodbar,  
Julien Hall,  
Jennie Joiner  
H. A. Jones,  
H. M. Keck,  
Marie Keeney,  
Gladys Kunz,  
Annie Lamberton,  
T. F. Leuker,  
A. B. Mustain,  
Ophelia McGraw,  
Lelia Moorehead,  
F. W. Neimeyer,  
E. H. Shinn,  
L. H. Southmayd,  
A. E. Stockburger,  
Beulah Sutton,  
Susan Tidball,  
Pearl White,  
W. V. Womack,  
May Zeigler.

**Bachelor of Civil Engineering.**

J. H. Blair,	P. C. Huntley,
S. T. Blair,	V. T. Moon,
H. C. DeLongey,	W. G. Morgan,
W. G. Huxtable,	W. D. Pye,
P. L. Wasson.	

**Bachelor of Electrical Engineering.**

Kenneth E. N. Cole,	Herman Eason,
H. V. Crawford,	S. B. Graham,
Ross E. Thompson.	

**Bachelor of Mechanical Engineering.**

C. B. Boles.

**Licentiate of Instruction.**

M. O. Alcorn,	Nina Knighton,
Jennie L. Blackshare,	Ada Lipe,
C. G. Bradford,	Dolph McCain,
J. L. Bledsoe,	J. G. Moore,
Margaret Boyette,	Lelia Moorehead,
Ruby Coffey,	Elma Morgan,
Nell Couch,	Louise Old.
Ruby Cotham,	Maud Outlaw,
May Curl,	Beatrice Prall,
Reba Dyer,	E. H. Shinn,
Mary Eakin,	Beulah Sutton,
R. S. Ellis,	N. O. Taff,
Dennie Eoff.	Susan Tidball.
Vivian Gillespie,	Lulu Todhunter,
Anne Greig,	J. A. Tyson,
Lucy Hon,	Maude E. Watkins,
Willie Kantz,	Anna S. Whitty,
Lucy Kilpatrick,	Corrinna S. Wood,
Edna Wright.	

**Short Course in Electrical Engineering.**

S. D. Spargo.

**Mechanic Arts.**

J. E. Willis,	E. W. Parcell.
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# COLLEGIATE ALUMNI OF THE UNIVERSITY OF ARKANSAS.

Name.	Degree.	Year.	Occupation.	Address.
Abercrombie, Bertha B. A.		'05	Mrs. J. E. Willis.....	Little Rock, Ark.
Abercrombie, J. S.....	B. A.			
	LL. B.	'04	Lawyer.....	Benton, Ark.
Abernathy, G. C.....	B. A.	'00	Lawyer.....	Shawnee, Okla.
Aikin, D. C.....	B. C. E.	'89		
*Alden, R.....				
Allen, Edna.....	B. A.	'96		
Allen, J. C.....	B. A.	'09	Teacher.....	Cove, Ark.
Anderson, L. S.....	B. L. L.	'84	Examiner, U. S. Patent Office.....	Washington, D. C.
Andrix, E. R.....	B. M. E.	'06	Steam Boiler Expert.....	Columbus, Ohio
Arbuckle, J. D.....	B. A.	'92	Dist. Prosecuting Att'y.....	Paris, Ark.
Armistead, C. F.....	B. A.	'93	Capt. 21st, Infantry Phil- ippines.....	
Ash, L. R.....	B. C. E.	'93		
	B. C. E.	'04		
	C. E.	'05	City Engineer.....	Kansas City,
Askew, G. H.....	B. A.	'98	Insurance Agent.....	Little Rock, Ark.
Askew, Nancy E.....	B. A.	'01	Mrs. C. N. Weems.....	Smith's Grove, Ky.
Askew, W. H.....	B. A.	'97	Lawyer.....	Magnolia, Ark.
Atkinson, J. H.....	B. A.	'10		
Austin, R. E. L.....	B. A.	'06		
Ayers, W. E.....	B. C. E.	'98	Civil and Const. Eng.....	156 Randolph Bldg. Memphis, Tenn.
Bailey, P. W.....	B. A.	'10	Druggist.....	Fayetteville, Ark.
Balch, C. P.....	B. A.	'07		
	L. I.	'05	Principal, High School ...	Taylor, Texas.
Ballard, B. C.....	B. A.	'06	Member Gen. Assembly ...	Fayetteville, Ark.
Ballard, J. M.....	B. A.	'07	Principal, High School ...	Roswell, N. Mex.
Barnett, C. P.....	B. E. E.	'96	Eng. for Urban Const. Co. 401-402 Dwight Bldg., Kansas City Mo.	
Barnett, Nettie.....	B. L.	'76	Mrs. C. P. Boles.....	Fayetteville, Ark.
Barr, Ida G.....	B. S.	'96	Mrs. R. E. Bagley.....	Perry, Okla.
Barrett, A. J.....	B. A.	'10	Teacher.....	Lonoke, Ark.
Barrett, F. B.....	B. C. E.	'07	Topo. U. S. G. S.....	Jonesboro, Ark.
Barrett, R. M.....	B. S. C.	'08	Medical Student.....	Memphis, Tenn.
Barton, D. R.....	B. A.	'11		Jonesboro, Ark.
Barton, R. B.....	B. A.	'02	Member F. G. Barton Cot- ton Co.....	Memphis, Tenn.

\*Deceased.



Name.	Degree.	Year.	Occupation.	Address.
Bates, C. O.....	B. A.	'83	Prof. Chem. Coe College..	Cedar Rapids, Iowa.
Bates, J. H.....	B. A.	'86	.....	.....
Bates, Madge N.....	B. A.	'03	Mrs. Hugh Morrow.....	Fayetteville, Ark.
Baxter, J. W.....	B. A.			
	B. S.	'02	Real Estate and Invest- ments.....	Fayetteville, Ark.
Bayley, W. S.....	B. E. E.	'09	Gen. Electric Works.....	Schenectady, N. Y.
Beakley, J. D.....	B. A.	'02	.....	.....
Beard, A. H.....	B. C. E.	'05	State Board of Health...	Harrisburg, Pa.
Beattie, Mary B.....	B. A.	'96	Primary Art Teacher, School for Deaf.....	Flint, Mich.
Belknap, J. R.....	B. M. E.	'08	Allis-Chalmers Co.....	Chicago, Ill.
Bell, J. C.....	B. A.	'94	Physician.....	Memphis, Tenn.
Bell, Lexie.....	B. A.	'09	Teacher.....	.....
Bell, M. L.....	B. A.	'98	General Attorney, C. R. I. & P. Ry.....	Chicago, Ill.
Bevers, A. W.....	B. A.	'99	Druggist.....	Springdale, Ark.
Bibb, Blanche.....	B. A.	'93	Mrs. G. A. Humphreys...	New York, N. Y.
Billings, F. M.....	B. C. E.	'03	Chief Engineer, the Oliver- Cuban Co.....	Manzanilla, Cuba.
Bird, E. V.....	B. C. E.	'08	Tupper & Bird.....	Muskogee, Okla.
Black, J. W.....	B. A.	'92	.....	.....
Blacklock, I. W.....	B. A.	'10	.....	Haskell, Ark.
Blackshire, P. L.....	B. C. E.	'06	Engineer.....	Calgary, Alberta, Canada.
Blackwell, W. I.....	B. C. E.	'96	.....	.....
Blair, John H.....	B. C. E.	'99	Contractor.....	Pittsburg, Kan.
Blair, D. B.....	B. C. E.	'10	With American Brdg. Co. Gary, Ind.	
Blair, James H.....	B. C. E.	'10	With American Brdg. Co. Gary, Ind.	
Blair, Leora.....	B. A.	'07	.....	.....
	L. I.	'04	Teacher.....	Van Buren, Ark.
Blair, S. T.....	B. C. E.	'10	With American Brdg. Co. Gary, Ind.	
Blakely, Leonora I.....	B. A.	'78	.....	.....
	L. I.	'78	Mrs. H. M. Hudgins.....	Fayetteville, Ark.
Blakemore, T. L.....	B. A.	'08	.....	.....
Blanchard, Fay H.....	B. A.			
	L. I.	'04	.....	Fayetteville, Ark.
Blaylock, J. C.....	B. C. E.	'03	Chief Estimator and De- signer, H. Eilenberger & Co.....	Chicago, Ill.
Bledsoe, J. L.....	B. A.	'10	Teacher.....	Corning, Ark.
Bloom, J. R.....	B. E. E.	'04	Pine City Electric Co...	Pine Bluff, Ark.
Boles, C. B.....	B. M. E.	'10	Engineer for Traction Co.	Kansas City, Mo.
Boles, A. P.....	B. A.	'08	.....	Fayetteville, Ark.
Bolinger, W. A.....	B. A.	'07	Teacher, Fort Smith H. S.	Fort Smith, Ark.
Booth, W. P.....	B. A.	'92	.....	.....
Borden, Alice.....	B. A.	'77	Mrs. J. B. Strouse.....	2022 Floyd St. Louisville, Ky.
Borders, J. M.....	B. S. A.	'07	.....	Fayetteville, Ark.
Bostick, J. A.....	B. S.	'01	Inspector, Treas. Dept.	Washington, D. C.

Name.	Degree.	Year.	Occupation.	Address.
*Botefur, Laura D.	B. A.	'75		
Bowles, P.	B. C. E.	'88		
Boyd, W. E.	B. A.	'96	General Claim Agent T. & B. V. Ry.	Houston, Texas.
Braly, Amanda	B. S.	'96		
	L. I.	'06		
Braly, E. H.	B. A.	'94	Engineer for Wm. Kenefick Co.	Kansas City, Mo.
*Braly, E. K.	B. M. E.	'97		
Braly, Etta	B. S.	'96	Mrs. Thomas McCulloch	Lincoln, Ark.
Brewer, O. H. P.	B. S.	'93	Pres. Cherokee Bd. of Ed.	Muskogee, Okla.
Brewster, H.	B. A.	'03		
Briggs, O. D.	B. A.	'02		
Brixey, A. M.	B. A.	'96	Merchant	Mounds, Okla.
Brizzolara, John	B. A.	'08		
Brockman, E. W.	B. A.	'06		
Brown, C. C.	B. A.	'08	Medical Student, Johns Hopkins	Baltimore, Md.
Brown, E. T.	B. C. E.	'00	Div. Engr. B. & O. Ry.	Winchester, Pa.
Brown, F. I.	B. M. E.	'02	Mechanic Engineer with Thos Fordyce Co.	Little Rock, Ark.
Brown, H. S.	B. M. E.	'01	N. E. Mgr. of Power Spec. Co.	Boston, Mass.
Brown, W. D.	B. A.	'82	Physician	Newtonia, Mo.
Brunscog, C. W.	B. C. E.	'06	C., M. & St. P. Ry.	Marion, Iowa.
Brunson, T. R.	B. C. E.	'08	C. R. I. & P. Ry. ffo.	Okla.
Bryan, L. B.	B. C. E.	'03	Asst. City Engr.	Chattanooga, Tenn.
Bryant, W. C.	B. A.	'08	Teacher Little Rock H.S.	Little Rock, Ark.
Buchanan, H. E.	B. A.	'02		
Buford, C. H.	B. C. E.	'07	Asst. Engr. Sante Fe Ry.	Topeka, Kans.
Bunn, J. B.	B. A.	'09	Teacher	Siloam Springs, Ark.
Burney, Sue	B. A.	'04	Principal, H. S.	Van Buren, Ark.
Butler, H. M.	B. A.	'79		
Campbell, J. L.	B. A.	'97	Traveling Salesman	Greenwood, Ark.
Campbell, L. L.	B. A.			
	L. I.	'06	Student, Columbia U.	New York City.
Campbell, S. J.	B. A.	'10		Fayetteville, Ark.
Carden, E. B.	B. L.	'77		
Carnall, Bess	B. A.	'09	Teacher	Murfreesboro, Tenn.
*Carnall, Ella	Ph. M.	'77		
Carothers, Neil	B. A.	'05	Assoc. Prof. Econ. and Sociol., Univ. of Ark.	Fayetteville, Ark.
Carr, W. B.	B. A.	'05	With Iola Portland Cement Co.	Dallas, Texas.
Carrigan, A. H.	B. A.	'82	Dist. Judge 30th, Dist.	Wichita Falls, Tex.
Carson, Ginnie E.		'75	Mrs. Jno. Knight	Jonesboro, Ark.
Carson, Augusta O.		'75	Mrs. T. W. Cline	
Carter, E. L.	B. A.	'05	Lawyer	Little Rock, Ark.
Carter, Nama	B. A.	'10	Teacher	Texas.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Cartwright, W. W.	L. I.	'03		
	B. A.	'03		
	B. S.	'03		Mountain View, Ark.
Cash, C. C.	B. A.	'09	Commandant, T. C. I.	San Antonio, Texas.
Catts, E. C.	B. M. E.	'06	Mech. Engr.	Almyra, Ark.
Chamberlain, R. R.	B. S.	'09		Malvern, Ark.
Chanslor, C. K.	B. A.	'82	Cashier Barry Co. Bank	Cassville, No.
Chapman, J. Jr.	B. C. E.	'05	Insp. St. Francis Levee	Memphis, Tenn.
Chappell, E. W.	B. E. E.	'04	Gen. Elec. Co.	Schenectady, N. Y.
Cheever, Louise	B. A.	'10	Teacher	Wilton, Ark.
Cherry, W. R.	B. A.	'82	Cashier, Bank of Paris	Paris, Ark.
Childress, Nora	B. A.	'08	Teacher	
Childress, Mary V.	B. A.	'10		
Chunn, G. D.	B. S.	'08	Student, Johns Hopkins University	Baltimore, Md.
Clancy, Wm. Jr.	B. C. E.	'02	Mi. Engr. E. Burte Copper Mi. Co.	Butte, Mont.
Clark, E.	B. A.	'03		
Cochrane, V. H.	B. C. E.	'01		
	C. E.	'06	Hendrick & Cochrane,	Kansas City, Mo.
Cockrill, E.	B. M. E.	'05	N. K. Fairbanks Co.	Chicago, Ill.
Coker, A.	B. C. E.	'07		Lead Hill, Ark.
Coker, J.	B. C. E.	'09		Lead Hill, Ark.
Coker, Roy	B. C. E.	'07	With Dietis & Winzel	Wichita, Kans.
Cole, K. E. N.	B. E. E.	'10	Gen. Elec. Works	Schenectady, N. Y.
Cole, Mary E.	L. I.	'04		
	B. A.	'05	Inst. H. S.	Stillwater, Okla.
Coleman, Nell	B. A.	'09	Teacher	Louisville, Miss.
Collier, J. T.	B. A.	'01		
Collins, T. A.	B. A.	'06	Lawyer	De Queen, Ark.
Combs, W.	B. C.	'07		
	C. E.	'10	Drainage Works	Miss.
Connelly, S.	B. A.	'00		
Cook, C. M. Jr.	B. S.	'05	Midshipman, U. S. N. Academy	Annapolis, Md.
Cook, L. J.	B. A.	'04	Attorney at Law	Texarkana, Ark.
Cotham, Ruby	B. A.	'10		Monticello, Ark.
Coyle, Norman	B. A.	'10	Teacher	Coal Hill, Ark.
Craig, P. G.	B. A.	'06	Student Columbia U.	New York City.
Cravens, Jessie	B. L. L.	'83	Mrs. O. L. Cravens	Neosho, Mo.
Crawford, H. V.	B. E. E.	'10	Gen. Elec. Works	Schenectady, N. Y.
Crawford, W. A.	B. A.	'00	Supt. Schools	Russellville, Ark.
Cromwell, C. W.	B. C. E.	'05	Engr.	St. Maries, Idaho
Croom, C. W.	B. A.	'06		West Point, Miss.
Crozier, A. B.	B. E. E.	'97	Consulting Engr.,	510 K. C. Life Bldg. Kansas City, Mo.
Crozier, Elizabeth N.	B. A.	'03	Mrs. H. C. Evins	Morrow, Ark.
Crozier, Ruth	B. A.	'07		Fayetteville Ark.
Crozier, W. N.	B. A.	'88	Minister	Fayetteville. Ark.
Cub age, J. G.	B. A.	'06	Prof. Ark. State Normal	Conway, Ark.



Name.	Degree.	Year.	Occupation.	Address.
Cummings, R. N.	B. A.	'98		2423 Ninth St. Seattle, Wash.
Curl, May	B. A.	'10	Teacher	Nashville, Ark.
Curry, Lula	B. S.	'92	Mrs. G. L. Teller	Riverside, Ill.
Dalton, C. E.	B. E. E.	'06		
Danaher, M.	B. A.	'88	Lawyer	Pine Bluff, Ark.
Daniels, H. F.	B. C. E.	'03	Traveling Freight Agent N. & W. Ry.	Memphis, Tenn
Davies, Hadgie B.	B. A.	'03	Mrs. L. R. Ash	Kansas City, Mo.
Davies, Lila C.	B. A.	'96	Mrs. Claud Head	Little Rock, Ark.
Davies, Mary L.	L. I.	'04		
	B. A.	'04	Teacher	Texarkana, Ark.
Davis, A. C.	B. M. E.	'09	With Bylesby & Co.	Chicago, Ill.
Davis, Barbara C. B.	Mus.	'06	Mrs. L. S. Olney	Fayetteville, Ark.
Davis, B. F.	B. A.			
	B. S.	'01	Lawyer	Wewoka, Okla.
Davis, C. G.	B. A.	'10		Fayetteville, Ark.
Davis, F. H.	B. C. E.	'03	Junior Engr. U. S. Engrs. Office	Tuscaloosa, Ala.
Davis, J. B.	B. S.	'05		Chelsea, Okla.
Davis, J. H.	B. E. E.	'01	Ass't. Elec. Engr. B. & O. Ry.	Baltimore, Md.
Davis, Lizzie		'75	Mrs. R. C. Brown	
Davis, Lyta	B. A.	'07		Fayetteville, Ark
Davis, Olga	B. A.	'10	Teacher	El Paso, Ark.
Davis, Opal	B. A.	'10	Teacher	El Paso, Ark.
Davis, O. L.	B. C. E.	'09	With Hutchinson & McCrary	Marietta, Ohio.
Davis, R. L.	B. A.	'10	Student, U. of A.	Fayetteville, Ark.
DeLongy, H. C.	B. C. E.	'10	Inst. Man, G. & M. N. Ry.	
Deloney, E. D.	B. A.	'06		
DeWitt, Frances	B. A.	'10		
Dean, Ruth	B. A.	'08	Teacher, Public School	Mena, Ark.
Deane, S. E.	B. C. E.	'07	Surveyor	Sanders, Idaho.
Dickinson, Ruth	B. A.	'00	Mrs. Elliott Berry	Bentonville, Ark.
Dickinson, T. T.	B. A.	'00		
	L. L. B.	'02	Lawyer	Little Rock, Ark.
Dickinson, W. E.	B. S. Ch.	'05	Chemist, Independent- Phosphate, Mines	Columbia, Tenn.
Dickson, E. W.	B. E. E.	'07	Elec. Engr.	Desha, Ark.
Dickson, W. E.	B. A.	'88	Teacher	Waldo, Ark.
Douglas, Frances	B. A.	'09		
Drake, C. H.	B. C. E.	'91		
	C. E.	'94		Summers, Ark.
Drake, N. F.	B. C. E.	'88	Prof. Imperial University	Tientsin, China.
Drees, C. J.	B. E. E.	'96	Member Ark. Elec. Co.	Little Rock, Ark.
Droke, G. W.	A. M.	'80	Prof. Math. and Astro. Univ. of Ark.	Fayetteville, Ark.

Name.	Degree.	Year.	Occupation.	Address.
*Droke, Lelia.....	B. A.	'03		
	M. A.	'06		
Droke, Josephine.....	B. A.	'04	Instr. Math. Univ. Ark.	Fayetteville, Ark.
Droke, Mary.....	B. Mus.	'07	Teacher High School	Fayetteville, Ark.
Dulaney, J. J.....	B. A.	'09	Teacher, O. B. C.	Arkadelphia, Ark.
Duncan, W. H.....	B. L. L.	'84	Lawyer	Conway, Ark.
Dyer, Mallie.....	B. A.	'94		Prairie Grone, Ark.
Earle, Clara.....	B. A.	'96	Teacher, Cumberland College	Lebanon, Tenn.
Eason, H. E.....	B. E. E.	'10		Fayetteville, Ark.
*Edmiston, W. L.....	B. L. L.	'84		
Eld, Amanda A.....	B. A.	'98	Prin. Academy for Indian Girls	Tusahoma, Okla.
Eld, C. J.....	B. C. E.	'96	Cons. Engr. for American Water Works and Guarantee Co.	Birmingham, Ala.
Eld, G. W.....	B. M. E.	'00		
Ellis, F. W.....	B. A.	'81	Lieut. U. S. Army, Ret.	Fayetteville, Ark.
Ellis, Forrest.....	B. A.	'09		Fayetteville, Ark.
Ellis, J. R.....	B. E. E.	'03		
	B. C. E.	'09	2nd. Lieut. U. S. Army	San Francisco, Cal.
Ellis, W. Y.....	B. E. E.	'02	Supt. Pine Bluff Elect. Ry. Co.	Pine Bluff, Ark.
England, W. W.....	B. A.	'83		
Erwin, T.....	B. S.	'00	Assoc. Prof. Hort. Iowa A. & M. College	Ames, Iowa.
Evins, Sallie D.....	B. A.	'07		
Field, W. T.....	B. M. E.	'06	Mech. Engr. Hydro-Elec. Power Plant	Valentine, Neb.
*Filmore, C. R.....	B. S.	'99		
Fishback, L. F.....	B. S.	'89	Lawyer	Fort Smith, Ark.
Floyd, J. C.....	B. A.	'79	Member Congress	Yellville, Ark.
Flynn, W. N.....	B. A.	'88		
Ford, D. L.....	B. A.	'09	Teacher	Foreman, Ark.
Foreman, C. D.....	B. S. A.	'06	Farmer	Chelsea, Okla.
Freeman, J. D. Jr.....	B. A.	'10		
Freeman, T. B.....	B. A.	'10	Merchant	Marianna, Ark.
Freeman, W. A.....	B. S.			
	B. A.	'01	Engr. U. P. R. R.	Green River, Wyo.
Fry, J. E.....	B. C. E.	'08	Cons. Engr.	Marianna, Ark.
Galloway, J. R.....	B. A.	'92		
Galloway, Rowena M.	B. A.	'02		
Gardner, J. W.....	B. A.	'06		
Gardner, P. W.....	B. A.	'10	Teacher, Hendrix College	Conway, Ark.
Gates, D. A.....	B. L.			
	B. A.			
	B. L. L.	'84	Chief of Revenue Agts.	Washington, D. C.
George, F. J.....	B. A.	'10		
George, I. L.....	B. A.	'10	Teacher	Duncan, Okla.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Gibson, F. I.	B. S.	'02	Chemist, Southern Cotton Oil Co.	Savannah, Ga.
Gibson, J. E.	B. M. E.	'94	Ass't. Engr., A. M. Pipe Co.	Philadelphia, Pa.
Gibson, R. C.	B. A.	'09		
Gibson, W. B.	B. A.	'09		
Goodbar, J. E.	B. A.	'10		
Goodwin, R. C.	B. A.	'10		
Goodwin, W. P.	B. L. L.	'84		
*Gordon, Belle E.	B. A.	'76		
Graham, S. B.	B. E. E.	'10		
Grant, J. R.	B. A.	'08		
Gray, W. D.	B. A.	'00	Inst. in Latin, Smith College	Northampton, Mass.
Greathouse, Allen	B. A.	'09		
Greaves, C. D.	B. A.	'83	Lawyer	Hot Springs, Ark.
Gregg, A. S.	B. A.	'78	Physician	Fayetteville, Ark.
*Gregg, A. W.	B. A.	'76		
Gregg, Edna	B. Mus.	'04	Private Teacher	Little Rock, Ark.
Gregg, L. W.	B. A.	'82	Ass't. Dist. Attorney	Fort Smith, Ark.
Grubbs, J. M.	L. I.			
	B. A.	'05	Lawyer	Stillwater, Okla.
Grubbs, W. W.	B. A.	'09		
Hall, C. E.	B. C. E.	'93	With D. & R. Ry. Co.	Dardanelle, Ark.
Hall, H. J.	L. I.	'87		
	B. A.	'94	Editor	Waldron, Ark.
Hall, Julien	B. A.	'10	Student, Univ. of Ark.	Fayetteville, Ark.
Hamilton, W. J.	L. I.	'91		
	B. A.	'92	Merchant	Hartford, Ark.
Hardin, Nina V.	B. A.	'02		
	M. D.	'05	Physician	Fayetteville, Ark.
Hardin, Lena J.	L. I.	'92		
	B. A.	'02		
	M. A.	'04		Fayetteville, Ark.
Harding, A. M.	B. A.	'04	Assoc. Prof. Math., Univ. of Ark.	Fayetteville, Ark.
Harding, C. T.	B. C. E.	'06	With Burns & McConnel	Kansas City, Mo.
Harding, V. A.	B. E. E.	'07		Centralia, Mo.
Harris, Agnes	B. A.	'76	Mrs. W. T. Johnson	Kansas City, Mo.
Harris, Sarah F.	B. A.	'76	Mrs. C. P. Conrad	
Harris, W. M.	B. A.	'03	Lawyer	Little Rock, Ark.
*Harrison, Grace	B. S.	'89		
Harrod, J. H.	B. A.	'79	Lawyer	Little Rock, Ark.
Hart, J. C.	B. A.	'85	Assoc. Justice Supreme Court	Little Rock, Ark.
Hathcoat, M. A.	B. A.	'08	Teacher	Yellville, Ark.
Hawkins, F. C.	B. A.	'09	Inst., Drury College	Springfield, Ark.
Hawkins, J. T.	B. L. L.	'77	Physician	Mt. Holly, Ark.
Head, J. D.	B. A.	'94	Lawyer	Texarkana, Ark.

\*Deceased.



Name.	Degree.	Year.	Occupation.	Address.
Heberly, J. A. ....	B. S.	'93		Germany.
Hedrick, I. G. ....	B. C. E.	'92	Hedrick & Cochrane	Kansas City, Mo.
Henderson, G. D. ....	B. A.			
	B. L. L.	'01	Lawyer.	Little Rock, Ark.
Hervey, W. R. ....	B. S.	'90	Pres. 1st. Nat'l. Bank	Los Angeles, Cal.
Hight, W. C. ....	B. C. E.	'08		Fayetteville, Ark.
Hillis, A. W. ....	B. L. L.	'84	Lawyer	Lake City, Ark.
Hillman, C. C. ....	B. S.	'07	Physician	Elmira, Ark.
Hixson, H. G. ....	B. C. E.	'09	Frisco Ry.	Monette, Mo.
*Hobbs, J. H. ....	B. A.	'88		
Hobbs, W. D. ....	B. A.			
	L. I.	'99		
	B. S.	'01	War Dept. Bldg.	Washington, D. C.
Holcomb, Cener. ....	L. I.	'90		
	B. A.	'92	Mrs. E. F. Ellis	Fayetteville, Ark.
Holcomb, Jobelle. .	B. A.	'98	Inst. in Eng., Univ. of	
			Ark.	Fayetteville, Ark.
Holland, W. C. ....	B. A.	'06	Druggist	Greenwood, Ark.
Holt, F. W. ....	B. A.	'03	Ass't. Paymaster, U. S. N.	
			Bureau of Supplies and	
			Accts.	Washington, D. C.
Holt, J. S. ....	B. A.	'07	Lawyer	Harrison, Ark.
Holt, R. E. ....	B. A.	'09	Law Student, Univ. of	
			Virginia	Charlottesville, Va.
Holtzclaw, H. H. .	B. S. A.	'09	Prof. in Agr. Sc.	Magnolia, Ark.
Hon, Daniel. ....	B. A.			
	M. A.	'82	Circuit Judge	Waldron, Ark.
Honnett, A. M. B. E. E.	B. E. E.	'03	Engr., Supplies & Mfg.	
			Agent	329-330 Frisco Bldg.
				St. Louis, Mo.
Hooper, Lillian. ....	B. Mus.	'06		
Hornor, J. L. ....	B. A.	'00	Lawyer	Helena, Ark.
Horsfall, F. ....	B. S.	'00	Hort. Mo. State Fruit	
			Exp. Sta.	Mountain Grove,
				Mo.
Horton, S. A. ....	B. A.	'91	Prin. of City Schools	Houston, Texas.
House, J. W. Jr. ....	B. A.	'07	Lawyer	Little Rock, Ark.
Howell, Edward. ....	B. A.	'01	Lawyer	Shawnee, Okla.
Howell, J. W. ....	B. L. L.	'85	Mgr. Ark. Cotton Oil Co.	
			Plant.	Fort Smith, Ark.
Howell, Willey. ....	B. S.	'97	Capt. 6th U. S. Inf.	
Hudgins, J. G. ....	L. I.	'05		
	B. A.	'05		Fayetteville, Ark.
Hudgins, W. H. ....	B. C. E.	'01	Ass't. Eng. S. P. Ry. Co.	San Francisco, Cal.
Hudson, J. H. ....	B. L. L.	'84		
Hughes, L. C. ....	B. S.	'07		
	B. Ch. E.	'08	Chief Chemist,	Kans.
			Chem. Mnfg. Co.	Hutchinson, Kans.
Huie, R. W. ....	B. A.	'99	Banker	Arkadelphia, Ark.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Humphrey, G. A.	B. A.	'90	Physician	New York City.
Hunt, H. G.	B. A.	'06	Lawyer	Shawnee, Okla.
Huntley, P. C.	B. C. E.	'10	Adj. Prof. Civil Engr.	
			Ark. Univ.	Fayetteville, Ark.
Hurt, G. A.	B. A.	'06	Member General Assemb.	Fayetteville, Ark.
Hurt, Garland	B. A.	'09		
Huxtable, W. G.	B. C. E.	'10	Drainage Work	Deering, Mo.
Hyatt, R. F.	B. Ch. E.	'07	Cadet, U. S. Military Academy	West Point, N. Y.
Irby, A. S.	B. A.	'05	Lawyer	Black Rock, Ark.
Jacks, M. E.	B. S.	'06	Chemist	Bisbee, Ariz.
Jackson, B. O.	B. A.	'05	Merchant	Hamburg, Ark.
James, J. J.	B. A.	'06	Adj. Prof. of Ancient Languages Ark. Univ.	Fayetteville, Ark.
Janes, J. I.	B. A.	'08	Teacher	Carlisle, Ark.
Jeffries, A. J.	B. A.	'07		Little Rock, Ark.
Jeffries, S. S.	B. A.	'05	Ass't. Postmaster	Clarendon, Ark.
Jennings, D. R.	B. M. E.	'10	Teacher	Lonoke, Ark.
Jennings, E.	B. A.	'77		Pittsburg, Kans.
Jernigan, W. J.	B. A.	'09		Sherrill, Ark.
Johnson, A. J.	B. A.	'07	Member Ark. Senate	Star City, Ark.
Johnson, A. P.	B. A.	'76		
Johnson, D. A. E.	B. A.	'08		Paris, Ark.
*Johnson, T. M.	B. L. L.	'80		
Johnston, J. H.	B. S. A.	'06	Lawyer	Newport, Ark.
Joiner, Jennie	B. A.	'10	Teacher	Osceola, Ark.
Jones, C. W.	B. S.	'05		
Jones, G. F.	B. A.	'08	Memb. Ark. Gen. As'mbly.	Frank, Ark.
Jones, H. A.	B. A.	'10		
Jones, Gustave	B. L. L.	'82	Lawyer, Memb. Board Trustees, U. of A.	Newport, Ark.
Jordan, Grace	B. A.	'05	Student, Ark. Univ.	Fayetteville, Ark.
Kantz, Willie D.	B. A.	'10		
Keck, H. M.	B. A.	'10	Prin. Paris H. S.	Paris, Ark.
Keeney, A. R.	B. Mus.	'06	Mrs. Guy Phillips	Fayetteville, Ark.
Keeney, Marie	B. A.	'10	Teacher	Ketchum,
Ketchum, Annie	B. A.	'09	Teacher	Little Rock, Ark.
Kimball, G. H.	B. C. E.	'02	Sec. Queen of Ark. Ins. Co.	Little Rock, Ark.
King, Artelle	B. L. L.	'80	Mrs. J. C. Belt	
Kinsworthy, E. B.	B. L. L.			
	B. L.	'85	Lawyer	Little Rock, Ark.
Kirby, F. B.	B. A.	'99	Physician	Little Rock, Ark.
Kitchens, B. M.	B. A.	'05	Merchant	Paragould, Ark.
Kitchens, T. B.	B. A.			
	M. A.	'80	Sec. Paragould Ins. Co.	Paragould, Ark.
Knott, V. P.	B. C. E.	'04	Assoc. Prof. Civil Eng.	
			Ark. Univ.	Fayetteville, Ark.
Kunz, E. H.	B. A.			
Kunz, Gladys	B. A.	'10	Teacher	Fayetteville, Ark.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Lake, Ella.....	B. L. L.	'84	Mrs. S. W. Barnett.....	
Lamberton, Annie L.	B. A.	'10	.....	
Lander, R. S.....	B. C. E.	'02		
	C. E.	'05	Mining Engineer.....	Galena, Ill.
Langford, B. W.....	B. A.	'04	Bookkeeper for Fox Bros. Hardware Co.....	Pine Bluff, Ark.
Langford, W. H.....	B. A.	'80	Banker.....	Pine Bluff, Ark.
Langford, Wm. H....	B. A.	'08	.....	Vilonia, Ark.
Lanier, J. A. M.....	B. A.		.....	Springfield, Mo.
Lark, W. H.....	B. C. E.	'05	Ass't, Engr. Imp. Dist. Work.....	Little Rock, Ark.
Leche, Mary M....	B. Mus.		.....	
Legate, R. H.....	B. S.	'05	.....	
Leverett, Abbie.....	B. A.	'94	Mrs. J. H. Taff.....	Marfa, Texas.
Leverett, E. V....	B. M. E.	'04	Supt. City Elec. Light Plant.....	Conway, Ark.
Leverett, Mary.....	B. A.	'86	Mrs. J. A. Taff.....	2002 Franklin St. N. E., Washing- ton, D. C.
Leverett, Rose.....	B. A.	'97	.....	
Leverett, S.....	B. S.	'06	.....	Magdalena, Mex.
Leister, L. B.....	B. A.	'09	.....	
Lipsey, D. B.....	B. S.	'96	Merchant.....	Fayetteville, Ark.
Locke, J. M.....	B. C. E.	'08	Engr., Trac. Co.....	Oklahoma City, Okla
Longino, J. L.....	B. E. E.			
	B. M. E.	'03	With Westinghouse Electric Co.....	St. Louis, Mo.
Lueker, C. G.....	B. A.	'08	Teacher.....	Palestine, Texas.
Lueker, T. F.....	B. A.	'10	Teacher.....	Langdon, S. D.
Machen, Jewel.....	B. A.	'09	.....	
Mahoney, J. K.....	B. A.	'07	Lawyer.....	El Dorado, Ark.
Marrs, S. E.....	B. A.	'79	Editor Democrat.....	Fayetteville, Ark.
Marshall, J. C.....	B. A.			
	M. A.	'79	Lawyer.....	Little Rock, Ark.
Martin, M.....	B. M. E.	'91		
	M. E.	'93	Prof. of Mechanic Eng. Wash. Agr. College....	Fullman, Wash.
Martineau, J. E.....	B. A.	'96	Judge of Chanc. Court ..	Little Rock, Ark.
Mashburn, E. E....	B. C. E.	'07	Road Master, M. & N. A. Ry.....	Leslie, Ark.
Massie, J. C.....	B. A.	'77	Wood Grower.....	Alzada, Mont.
Mayes, J. F.....	B. A.	'83	U. S. Marshal, W. Dist. of Arkansas.....	Fort Smith, Ark.
McAlester, E. W.	B. E. E.	'04	.....	McAlester, Okla.
McCain, W. R.....	M. A.	'98	Fire Insurance.....	Fordyce, Ark.
McConnell, J. E.....	B. A.	'07	Minister.....	Prairie Grove, Ark.
McConnell, J. L....	B. C. E.	'02	Supt. Cons., Sargent & Lunday Co.....	Chicago, Ill.
McCrary, G. G....	B. C. E.	'06	Civil Engineer.....	Birmingham, Ala.
McCulloch, D.....	B. A.	'07	Lawyer.....	Marianna, Ark.



Name.	Degree.	Year.	Occupation.	Address.
McCulloch, E. F. . . . .	B. A.	'10	Student, Harvard Law School . . . . .	Cambridge, Mass.
McCulloch, H. . . . .	B. A.	'09	Medical Student, John Hopkins . . . . .	Baltimore, Md.
McDonough, J. B. . . . .	B. A.	'82	Lawyer . . . . .	Fort Smith, Ark.
McFarlane, R. W. . . . .	B. A.	'82		
	M. A.	'84	Lawyer . . . . .	Greenwood, Ark.
McGehee, A. Jr. . . . .	B. A.	'03	Lawyer, Member General Assembly . . . . .	Little Rock, Ark.
McGehee, B. . . . .	B. C. E.	'05	Consulting Engr. . . . .	Little Rock, Ark.
McGraw, Ophelia . . . . .	B. A.	'10		
McKinney, C. S. . . . .		'75		St. Louis, Mo.
McMillan, Della . . . . .	B. Mus.	'05	Mrs. B. O. Jackson . . . . .	Hamburg, Ark.
*McNeely, J. C. . . . .	B. C. E.	'89		
McNeil, D. A. . . . .	B. M. E.	'97		
McNemer, Phil. . . . .	B. A.	'09		Little Rock, Ark.
McNiel, R. A. . . . .	B. C. E.	'09	Tunnel Insp. . . . .	Bingham Canyon,
McRae, C. . . . .	B. C. E.	'01	Lumber Merchant . . . . .	Mt. Holly, Ark.
Means, A. D. . . . .	B. A.	'00	Supt. Schools . . . . .	Pocahontas, Ark.
Mehaffey, J. W. . . . .	B. A.	'09	Lawyer . . . . .	Little Rock, Ark.
Mellet, W. M. . . . .	B. L.	'77	Attorney . . . . .	Muskogee, Okla.
Melton, Hattie C. . . . .	B. A.	'03	Mrs. M. L. Cotton . . . . .	Stiegler, Okla.
Middleton, Mai . . . . .	B. A.	'86	Mrs. Robt. Chasteen . . . . .	Pawnee, Okla.
Middleton, R. J. . . . .	B. C. E.	'03	Ass't, Engr. C. M. & St. P. Ry. . . . .	Chicago, Ill.
Miller, H. G. . . . .	B. A.	'10		Lonoke, Ark.
Miller, Myrtle . . . . .	B. A.	'09		Fayetteville, Ark.
Milum, R. W. . . . .	B. A.	'04	Merchant . . . . .	Harrison, Ark.
Mitchell, Ara . . . . .	B. A.	'09		Fayetteville, Ark.
Mitchell, S. B. . . . .	B. S. C.	'09	Asst. Chemist Kennicott Co. . . . .	Chicago Heights, Ill.
Mitchell, B. Jr. . . . .	B. M. E.	'07	Assoc. Prof. of Mech. Eng. Ark. Univ. . . . .	Fayetteville, Ark.
Mitchell, N. D. . . . .	B. C. E.	'08	General Engineering . . . . .	Greenway, Ark.
Mitchell, S. A. . . . .	B. A.	'03	Lawyer . . . . .	Mo. Trust Bldg. St. Louis, Mo.
Miser, H. D. . . . .	B. A.	'08	Field Geologist . . . . .	Fayetteville, Ark.
Miser, W. L. . . . .	B. A.	'08	Principal, H. S. . . . .	Portland, Ark.
Mobberley, H. P. . . . .	B. C. E.	'94	Const. Engr. . . . .	Springfield, Mo.
Mock, E. L. . . . .	B. A.	'94	With W. M. D. Cleveland & Sons . . . . .	Houston, Texas.
Mock, L. Byrd . . . . .	B. A.	'94		
	M. A.	'05	Journalist . . . . .	Seattle, Wash.
Moon, V. T. . . . .	B. C. E.	'10	With K. C. S. Ry. . . . .	Pittsburg, Kan.
Moore, B. L. . . . .	B. A.	'81		
	L. I.	'07	Teacher . . . . .	Warren, Ark.
Moore, G. J. . . . .	B. A.	'09		Bentonville, Ark.
Moore, Henrietta . . . . .	B. A.	'07		
Moore, J. F. . . . .	B. S.	'93	Merchant . . . . .	Fayetteville, Ark.

Name.	Degree.	Year.	Occupation.	Address.
Moore, J. H.	B. S.	'93	Chemist	Saltville, Va.
Moore, J. I.	B. A.	'81	Lawyer	Helena, Ark.
Moore, J. L.	B. M. E.	'97	Kerr Turbine Co.	Wellsville, N. Y.
Moore, Lucy L.		'75	Mrs. J. G. Ross	Fayetteville, Ark.
Moore, S. W.	B. A.	'08		
Mooring, D. C.	B. S.			
	M. S.	'03	Ass't. Prof. of Hort. Miss., Agri. College	Starksville, Miss.
Morehead, Lelia	B. A.	'10	Teacher in H. S.	Hot Springs, Ark.
Morgan, Elma	B. A.	'10	Teacher	Stephens, Ark.
Morgan, W. C.	B. C. E.	'10	With K. C. S. Ry.	Pittsburg, Kan.
Morgan, W. S.	B. A.	'08	Teacher	Hartford, Ark.
Morrow, D. C.	B. E. E.	'97	Local Mgr. United Iron Works Co.	Iola, Kan.
Morrow, H. E.	B. S. A.	'04	Adj. Prof. of Chemistry, Ark. Univ.	Fayetteville, Ark.
Morrow, Mattie M.	B. S.	'90	Mrs. J. D. Wilson	Fayetteville, Ark.
*Mulholland, Sarah	B. A.	'86		
Muller, J. F.	B. M. E.	'03	With Iron Mt. Ry. Co.	Little Rock, Ark.
Mullins, G. W.	B. A.	'04	Prof. Math. Simmons Col- lege	Abilene, Texas.
Mullins, T. C.	B. C. E.	'06	Engr. with Chicago Trac- tion Co.	Chicago, Ill.
Mundt, L. J.	B. S.			
	B. A.	'01	Lawyer	Helena, Ark.
Murphy, J. W.	B. S.	'07	Ass't. Chemist, Tex. A. & M. College	College Sta. Texas.
Murphy, W. C.	B. A.	'09	Principal H. S.	Prairie Grove, Ark.
Mustain, A. B.	B. A.	'10	Census Clerk	Washington, D. C.
Myar, A. J.	B. C. E.	'96	Engr. with St. Louis Br. & Iron Co.	St. Louis, Mo.
Neal, W. H.	B. L.	'76		
Neimeyer, F. W.	B. A.	'10		Little Rock, Ark.
Nelson, R. J.	L. I.	'03		
	B. S.	'05		
	M. S.	'07	Editor	Dallas, Texas.
Nesbit, W. E.	B. A.	'09	Student, Johns Hopkins	Baltimore Md.
Newman, A. J.	B. A.	'91	Lawyer	Little Rock, Ark.
Newman, L. L.	B. E. E.	'01		
Nichols, G.	B. A.	'98	With Colo. Ry. Assoc.	Denver, Colo.
Nichols, Elizabeth	B. A.	'09		
*Nordmeyer, C. D.	B. S.	'06		
Norton, D' A.	B. A.	'09	Student, Columbia Univ.	New York City.
Notrebe, E. P.		'85		
Nunn, Lucy	B. A.	'09	Teacher	Benton, Ark.
Oates, C. E.	L. I.	'04		
	B. A.	'06		
Oates, M. B.	B. S. A.	'09	Prof. State Agr. School	Russellville, Ark.
Oats, T. F.	B. A.	'82		

\*Deceased.

## COLLEGIATE ALUMNI

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Name.	Degree.	Year.	Occupation.	Address.
Obenshain, Ora.....	B. S.	'89	Teacher.....	Eureka Springs, Ark.
Oishi, Zenki.....	M. A.	'06	.....	Japan.
Oliver, Bess.....	B. A.	'07	.....	Fayetteville, Ark.
Olney, L. S.....	B. E. E.	'05	Assoc. Prof. Elec. Engr. Ark. Univ.....	Fayetteville, Ark.
Orr, M. K.....	B. Mi. E.	'07	.....	Mercer, Utah.
Orto, C. H.....	.....	'00	Auditor, Armour & Co. ....	Memphis, Tenn.
Pace, Ida.....	B. A.	'88	Mrs. A. H. Purdue.....	Fayetteville, Ark.
Parker, A. C.....	B. S.	'07	.....	.....
Patterson, Daisy B.....	B. A.	'99	Mrs. C. C. Suman.....	Cushing, Okla.
Patton, Alice L.....	B. L.	'77	.....	.....
.....	B. A.	'78	.....	.....
.....	M. A.	'79	Teacher.....	Fayetteville, Ark.
Patton, A. P.....	B. A.	'10	.....	.....
Patton, C. C.....	B. A.	'91	Wholesale Hdw.....	St. Louis, Mo.
Patton, Mattie.....	B. L. L.	'80	Mrs. Chas. Jenkins.....	.....
Payne, D.....	B. A.	'06	Stenographer, Williams Coal Co.....	McHenry, Ky.
Pearson, T. M.....	B. A.	'08	Teacher.....	Wynne, Ark.
Pettigrew, T. A.....	B. A.	.....	.....	.....
.....	M. A.	'78	Lawyer.....	Charleston, Ark.
Pharr, H. N.....	B. C. E.	'93	.....	.....
.....	C. E.	'00	Cons. Engineer.....	Memphis, Tenn.
*Pharr, J. S.....	B. A.	'92	.....	.....
Philbeck, R. E.....	B. A.	'00	Teacher.....	Pine Bluff, Ark.
Phillips, C. O.....	B. A.	'04	.....	Fayetteville, Ark.
Phillips, M. R.....	B. A.	'10	Teacher.....	Missouri.
Pickle, J. W.....	B. A.	'82	Physician.....	Kirkwood, Mo.
Pitman, R. T.....	B. S.	'94	Chief Chem. for Sloss-Sheffield Steel and Iron Co.	Birmingham, Ala.
Pollard, W. A.....	B. A.	'07	.....	Gaither, Ark.
*Poleson, Alice.....	B. S.	'88	.....	.....
Pope, A. D.....	B. S.	'06	.....	.....
*Pope, N. P.....	B. S.	'05	.....	.....
Powell, W. W.....	B. A.	'88	.....	.....
Pratt, D. H.....	B. S.	'06	.....	.....
Pratt, F. H.....	B. C. E.	'05	Banker.....	Kansas, Okla.
Price, C. G.....	B. A.	'98	General Agt. Union Life Insurance Co.....	Little Rock, Ark.
Fritchett, F. A.....	B. C. E.	'08	With City Engr. ....	Memphis, Tenn.
Pruett, G. C.....	B. C. E.	'06	Ass't. Engr., C. M. & St. P. Ry.....	Miles City, Mont.
Pruett, R. J.....	B. C. E.	'06	.....	.....
Pruett, W. E.....	B. C. E.	'97	Designer, C. M. & St. P. Ry. Co.....	Chicago, Ill.
Pugh, Anna.....	B. A.	'07	.....	.....
.....	L. I.	'06	Teacher, Mountain Home College.....	Mountain Home, Ark.

\*Deceased



Name.	Degree.	Year.	Occupation.	Address.
Pulley, C. H.....	B. A.	'09	Insurance Agent.....	Fayetteville, Ark.
Purdy, E. N.....	B. S.	'00	Mrs. G. T. Darden.....	Blanton, Miss.
Putman, Anna.....	M. A.	'75	Mrs. C. M. King.....	Fayetteville, Ark.
Pye, W. D.....	B. C. E.	'10	Drainage Work.....	Rector, Ark.
Quarles, J. T.....	B. M. E.	'04	Contractor.....	Oklahoma City, Okla.
Rattenbury, W. H....	B. A.	'00	Salesman for Cruden-Mar- ten of St. Paul.....	Duluth, Minn.
Read, Alicia.....	B. A.	'09	.....	Fayetteville, Ark.
Reagan, Z. L.....	B. C. E.	'08	Bookkeeper, Ozark Gro. Co.....	Fayetteville, Ark.
Redden, Albert.....	B. A.	'08	.....	Harrison, Ark.
Redus, J. L.....	B. A.	'96	Supt. Public Schools.....	Miami, Texas.
Reed, G. W. M. Jr..	B. L. L.	'84	Atty. Sec. Interior.....	Washington, D. C.
Reed, J. A. Jr.....	B. C. E.	'10	With Frisco Ry. Co.....	Joplin, Mo.
Reed, K. A.....	B. E. E.	'07	With Westinghouse Elec- tric Co.....	St. Louis, Mo.
Reed, Lina X.....	B. A.	'81	.....	Fayetteville, Ark.
*Reed Maggie.....	B. A.	'78	.....	.....
Remy, Molly.....	B. A.	'96	Mrs. S. C. Treadwell.....	Tishomingo, Okla.
Revel, J. W.....	B. S. C.	'09	Chemist.....	Chicago, Ill.
Reves, C. M.....	B. A.	'05	Minister.....	Piggot, Ark.
Rhodes, C. R.....	B. E. E.	'09	Farmer.....	Osceola, Ark.
Rhodes, J. W. Jr.....	B. A.	'09	.....	.....
Rhyne, J. R.....	B. S.	'06	.....	.....
.....	B. C. E.	'07	Engr. Drainage District ..	Corning, Ark.
Rieff, O. S.....	B. A.	'81	.....	Little Rock, Ark.
Rife, W. B.....	B. A.	.....	.....	.....
.....	B. S.	'03	.....	.....
Risser, Elizabeth.....	B. A.	'07	.....	Fayetteville, Ark.
Risser, T. S.....	B. E. E.	'04	Elec. Engr.....	Omaha, Neb.
Rogers, B. A.....	B. A.	.....	.....	.....
.....	M. A.	'82	.....	Gravette, Ark.
Ross, H. L.....	B. A.	'01	Missionary.....	Matamoros, Mex.
Ross, J. H.....	B. S.	'08	Sec. Y. M. C. A.....	Dallas, Texas.
Ross, Lucy I.....	B. A.	'01	.....	.....
*Ross, T. C.....	B. A.	'80	.....	.....
Ross, W. A.....	B. A.	'98	Missionary.....	Linares, N. L., Mex.
Ruggles, W. A.....	B. E. E.	'03	Draft. for Board of Edu- cation.....	St. Louis, Mo.
Russell, F.....	B. S.	'09	Prof. of Sci., Little Rock H. S.....	Little Rock, Ark.
Russell, L.....	B. A.	'80	.....	.....
Sadler, C. L.....	B. C. E.	'01	Topog. U. S. G. S.....	Washington, D. C.
Sadler, D. K.....	B. A.	'06	.....	Booneville, Ark.
Sanders, C. F.....	B. A.	'99	Editor, Sentinel Record ..	Hot Springs, Ark.
Sanders, Lucy E.....	B. A.	'08	.....	Fayetteville, Ark.
Sanders, T. E.....	B. A.	'01	Physician.....	Hot Springs, Ark.
Saxon, R. L.....	B. S.	'03	Physician.....	Holly Grove, Ark.

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Schoff, G. C.	B. C. E.	'88	Agt., Babcock and Wilcox Co.	Philadelphia, Pa.
Schimmelpfennig, C. W.	B. C. E.	'06	With American Brg. Co.	Chicago, Ill.
Sedwick, T. D.	B. A. B. S.	'02	Chief Chem. for C. R. I. & P. Ry. Co.	Chicago, Ill.
Shaver, L. B.	B. C. E. B. S.	'08 '07	With M. O. & G. Ry.	Muskogee, Okla.
*Shell, G. C.	B. L. L.	'82		
Shellenberger, Alice	B. A.	'04		Fayetteville, Ark.
Sherrill, J. A.	B. A.	'09	Lawyer	Little Rock, Ark.
Shinn, E. H.	B. A.	'10	Prof. Ark. Agri School	Russellville, Ark.
Shipley, J. L.	B. A.	'09	Rhodes Scholar	Oxford, England.
Shook, Sarah	B. A. M. A.	'07 '09		
Shore, Rena	B. A.	'07	Mrs. Cameron Duncan	Brooklyn, N. Y.
Shreve, A. W.	B. C. E.	'91	Lime Mfg.	Farmington, Ark.
Shreve, H. B.	B. C. E.	'91		Farmington, Ark.
*Simms, W. D.	B. L.	'77		
*Simonds, Alice	B. S.	'96		
Sivley, G. M.	B. S.	'07		
Shelton, G. V.	B. C. E. C. E.	'91 '95	Prof. of C. E. Ore. Agri. College	Corvallis, Ore.
Shelton, J. E.	B. S.	'97	Chemist, Mathieson Alkali Works	Saltville, Va.
Slagle, Ida	B. A.	'89	Mrs. W. J. Gilbreath	Wichita, Kan.
Smilie, R. P.	B. C. E.	'07	With C. S. Ry. Co.	Lubbock, Texas.
Smith, A. V.	B. A.	'98		
Smith, C. D.	B. A.	'02	Geologist, U. S. G. S.	Washington, D. C.
Smith, Fannie	B. A.	'01		Little Rock, Ark.
Smith, H. R.	B. A.	'08	With Caddo Gas & Oil Co.	Oil City, La.
Snell, M. F.	B. C. E.	'09	With American Brg. Co.	Ambridge, Pa.
Snell, V. K.	B. C. E.	'08	With American Brg. Co.	Ambridge, Pa.
Southmayd, L. H.	B. A.	'10		
Spencer, Aileen	B. A.	'09	Teacher	Monticello, Ark.
Spencer, E. L.	B. A.	'98		
Spradlin, B. A.	L. I. B. A.	'06 '07	Prin. H. S.	Ravenden Springs, Ark.
Sowers, Gracy	B. A.	'08	Mrs. J. R. Grant	
Stanford, A. F.	B. C. E.	'04	Div. Engr. St. Francis District	Fritz, Ark.
Stanford, J. B.	B. S. Ch.	'06	Physician	Memphis, Tenn.
Stanley, J. H.	B. A.	'07		
Starbuck, A.	B. A.	'08	Prin. H. S.	Charleston, Ark.

Name.	Degree.	Year.	Occupation.	Address.
Stelzner, W. B.	B. E. E.	'07	Adj. Prof. Elec. Engr.	
			Ark. Univ.	Fayetteville, Ark.
Stockburger, A. E.	B. S.	'10		
Stockton, Irene	B. A.	'06	Teacher	Little Rock, Ark.
Stone, B. H.	B. A.	'04	Lawyer	Amarillo, Texas.
Stone, J. H.	B. S.	'06		Pine Bluff, Ark.
Streepy, J. P.	B. A.	'03		
	L. I.	'03		
	B. L. L.	'06	Lawyer	Little Rock, Ark.
Stroup, Henry	B. A.	'83	Planter and Contractor	Paris, Ark.
Stubblefield, Demie	L. I.	'99		
	B. A.	'01		Kansas City, Mo.
Stubblefield, G.	B. C. E.	'02	Cons. Engr.	Portland, Ore.
Sutton, Beulah	B. A.	'10	Teacher	Siloam Springs, Ark.
Sutton, Mabel	B. A.	'02	Mrs. A. W. Wasson	Songdo, Korea.
Sutton, W. S.	B. A.	'78		
	M. A.	'81		
	L. L. D.	'05	Prof. of Ed., Univ. Texas	Austin, Texas.
Swearingin, S. C.	B. A.	'04	Prin. Public Schools	Stiegler, Okla.
Taber, H. B.	B. A.	'07	Lawyer	Fort Smith, Ark.
*Taff, A. G.	B. C. E.	'90		
Taff, R. L.	B. A.	'84	Mgr. Teachers' Ass'n.	Austin, Texas.
Taff, Mary	B. A.	'89	Mrs. G. V. Skelton	Corvallis, Ore.
Talliferro, Lou	B. L. L.	'83		
Taylor, B. W.	B. A.	'00	Lawyer	Little Rock, Ark.
Taylor, E. L.	B. L.	'76	Lawyer	Spokane, Wash.
Taylor, Rupert	B. A.	'03	Student, Columbia Univ.	New York City.
Teague, C. V.	B. A.	'79	Lawyer	Hot Springs, Ark.
Thomas, B. F.	B. A.	'07		Tyler, Texas.
Thomason, Annie	B. A.	'00	Mrs. C. L. Dunlap	Clifton, Ariz.
Thompson, M. F.	B. E. E.	'08	With Fayetteville Elec.	
			Light Co.	Fayetteville, Ark.
Thompson, R. E.	B. E. E.	'10	With Westinghouse Elec.	
			Co.	Wilksburg, Pa.
Thompson, W. E.	B. S.	'08		Warren, Ark.
Tidball, Nell	B. A.	'07		
Tidball, Susan	B. A.	'10	Teacher	Fort Worth, Texas.
Tillar, B. J.	B. A.	'86		
Tillman, Fred	B. A.	'10	Lawyer	Fayetteville, Ark.
Tillman, J. N.	B. L. L.	'80	Pres. Univ. of Ark.	Fayetteville, Ark.
Towler, G. F.	B. A.	'00		
Townsley, F. P.	B. S.	'07		
	B. E. E.	'08	Allis Chalmers Co.	Milwaukee, Wis.
Treadway, T. C.	B. E. E.	'01		
	E. E.	'04	Vice Pres. Treadway Elec.	
			Co.	Little Rock, Ark.
Treadway, W. A.	B. E. E.	'00		
	E. E. E.	'01		
	B. M. E.	'03	Pres. Treadway Elec. Co.	Little Rock, Ark.



Name.	Degree.	Year.	Occupation.	Address.
Treadwell, L. ....	C. E.	'88	Vice Pres. and Chief Engr. Union Bridge & Cons. Co. ....	Kansas City, Mo.
Treadwell, S. C. ....	B. A.	'04	Lawyer. ....	Tishomingo, Okla.
Trent, Bess. ....	B. A.	'09	.....	Fayetteville, Ark.
Triplet, C. H. Jr. ....	B. A.	'01	.....	Pine Bluff, Ark.
Tucker, J. R. ....	B. S. A.	'09	.....	.....
Tyson, W. C. ....	B. C. E.	'07	U. S. River Imp. ....	Vicksburg, Miss.
Umbaugh, Ollie L. ....	B. A.	'07	Mrs. T. A. Collins. ....	De Queen, Ark.
Van Vaulkenburgh, H. S. ....	B. S.	'05	Missionary. ....	Kashing, China.
Vance, A. M. ....	B. C. E.	'93	Ass't. Engr. M. P. Ry. Co. ....	Holden, Mo.
Vandeventer, J. ....	B. S.	'93	U. S. Navy. ....	.....
Vaughan, G. ....	B. A.	'96	.....	.....
.....	B. L. L.	'89	Lawyer. ....	Little Rock, Ark.
Vaulx, Eleanor. ....	B. A.	'04	.....	.....
Vaulx, Julia. ....	B. A.	'92	Inst. in Eng., Iowa State College. ....	Ames, Iowa.
Vaulx, Katherine. ....	B. A.	'97	.....	De Land, Fla.
Vaulx, S. F. ....	B. A.	'92	Treas. Bluff City Lbr. Co. ....	Pine Bluff, Ark.
Waggener, Annie. ....	B. L.	'76	Mrs. J. S. Marques. ....	Summers, Ark.
Waggener, W. J. ....	B. A.	'76	.....	.....
.....	M. A.	'85	.....	.....
Walker, J. V. ....	B. A.	'77	Lawyer. ....	Fayetteville, Ark.
Walker, J. W. ....	B. A.	'04	.....	.....
.....	L. I.	'04	Student, Med. School. ....	St. Louis, Mo.
Walker, Mabel. ....	B. A.	'08	.....	Buntyn, Tenn.
Walls, C. A. ....	B. A.	'07	Lawyer. ....	Lonoke, Ark.
Warren, G. A. ....	B. L.	'88	Physician. ....	Imboden, Ark.
Waterfield, E. A. ....	B. A.	'09	Insurance Agent. ....	Little Rock, Ark.
Wasson, A. W. ....	B. A.	'02	Missionary. ....	Songdo, Korea.
Wasson, P. L. ....	B. C. E.	'10	With Mo. P. Ry. Co. ....	Monroe, La.
Watkins, G. A. ....	B. C. E.	'09	Dickinson & Watkins. ....	Little Rock, Ark.
Watson, C. A. ....	B. A.	'77	Teacher. ....	Fayetteville, Ark.
Watson, J. J. ....	B. A.	'81	.....	.....
Watson, J. T. ....	B. C. E.	'07	Ass't, City Engr. ....	Pine Bluff, Ark.
Webb, C. W. ....	B. S.	'05	.....	.....
Weber, L. W. ....	B. A.	'06	Prin. H. S. ....	Durant, Okla.
Webster, F. H. ....	B. E. E.	'05	Gen. Elec. Co. ....	Schenectady, N. Y.
Webster, Olive. ....	B. A.	'01	.....	Marvell, Ark.
Weems, C. N. ....	B. A.	'99	Teacher. ....	Smiths Grove, Ky.
Weld, Jean. ....	B. A.	'07	.....	Marianna, Ark.
Wheeler, J. N. ....	B. A.	'90	.....	Warren, Ark.
White, Pearl. ....	B. A.	'10	.....	Fayetteville, Ark.
Whitehead, A. D. ....	B. A.	'05	.....	.....
.....	L. I.	'04	Lawyer. ....	Warren, Ark.
Wiggins, J. C. ....	B. C. E.	'08	.....	.....
Wiley, Pearl E. ....	B. S.	'02	Teacher, H. S. ....	Booneville, Ark.
*Wiley, Winona M. ....	B. A.	'99	.....	.....

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Wilkinson, W. N. . . . .	B. A.	'01	Cashier, Farmers' Bank . .	Greenwood, Ark.
Williams, Beulah. . . . .	B. A.	'05	Mrs. H. B. VanValken- burgh . . . . .	Kashing, China.
Williams, C. X. . . . .	L. I.	'02		
	B. A.	'04		Booneville, Ark.
Williams, Hattie. . . . .	B. A.	'98	Teacher . . . . .	Fayetteville, Ark.
Williams, Jennie. . . . .	B. A.	'98	Teacher . . . . .	Fort Smith, Ark.
Williams, Naomi. . . . .	B. L. L.			
	M.A.	'80	Inst. in Prep. Dept. Ark. Univ. . . . .	Fayetteville, Ark.
Williams, O. E. . . . .	B. A.	'08		
Williamson, T. D. . . . .	B. E. E.	'09	With Gen. Elec. Co. . . . .	Schenectady, N. Y.
*Willis, R. H. . . . .	B. A.	'88		
Wilson, C. N. . . . .	B. C. E.	'09	2nd. Lieut. U. S. Army. . .	Fort Monroe, Va.
Wilson, C. P. . . . .	B. S. A.	'06		
Wilson, H. H. . . . .	B. E. E.	'01	In Mech. Engr. Dept., Pa. Ry. Co. . . . .	Altoona, Pa.
Wilson, J. M. . . . .	B. S.	'07	Adj. Prof. of Agri., Ark. U.	Fayetteville, Ark.
Wilson, J. R. . . . .	B. A.			
	L. I.	'04		
	L. L. B.	'06	Lawyer . . . . .	Warren, Ark.
Wilson, Nellie C. . . . .	B. A.	'06		Fort Smith, Ark.
Wilson, W. O. . . . .	B. L.	'01		
	B. S.	'04	Teacher, Arkansas State Normal . . . . .	Conway, Ark.
Wilfrey, L. E. . . . .	B. A.	'09	Teacher, Hendrix College.	Conway, Ark.
Winters, W. L. . . . .	B. C. E.	'06	Winters & Dove . . . . .	Fort Smith, Ark.
Womack, J. P. . . . .	L. I.	'02		
	B. A.	'03	Prin. H. S. . . . .	Stephens, Ark.
Womack, W. V. . . . .	B. A.	'10	Minister . . . . .	Springdale, Ark.
Wood, A. C. . . . .	B. M. E.	'92	Cons. Mech. Engr. . . . .	Philadelphia, Pa.
Wood, B. F. . . . .	B. E. E.	'93	Ass't. Engr. Motive Power Pa. Ry. Co. . . . .	Altoona, Pa.
Wood, C. D. . . . .	B. A.	'79	Assoc. Justice Supreme Court . . . . .	Little Rock, Ark.
Wood, C. F. . . . .	B. C. E.	'04	Real Estate Broker . . . .	Fort Smith, Ark.
Wood, G. B. . . . .	B. A.	'99	Gen. Agt. K. C. S. Ry. . .	Shreveport, La.
Wood, J. S. . . . .	B. S. C.	'07	Cadet, U. S. Mil. Academy	West Point, N. Y.
Wood, O. S. . . . .	B. S. in C. E.	'08	2nd. Lieut. U. S. Army. . .	
Woods, J. P. . . . .	B. A.	'09	Insurance Agent . . . . .	Little Rock, Ark.
Woodall, W. H. . . . .	B. A.	'85		
Woodson, E. F. . . . .	B. C. E.	'08		McAlester, Okla.
Woodruff, C. H. . . . .	B. A.	'08	Prin. H. S. . . . .	Sapulpa, Okla.
Woolverton, C. D. . . . .	B. L. L.	'85		
Wootton, L. L. . . . .	B. A.	'09	Executive Clerk Agri. Ex- periment Station . . . . .	Fayetteville, Ark.
York, J. O. . . . .	B. A.	'07		Harrison, Ark.
Young, Daisy. . . . .	B. A.	'00	Univ. of Mo. . . . .	Columbia, Mo.
Yowell, J. G. . . . .	B. S. A.	'09		
Zeigler, Ella Mae. . . . .	B. A.	'10		Harrison, Ark.

\*Deceased.

# ALPHABETICAL LIST OF OFFICERS AND STUDENTS OF THE DEPARTMENTS AT FAYETTEVILLE

*Abbreviations.*—*Adj. Prof.*, Adjunct Professor; *Assoc. Prof.*, Associate Professor; *C.*, Conservatory of Music and Arts; *Fr.*, Freshman; *Grad.*, Graduate; *Instr.*, Instructor; *Jr.*, Junior; *Prep.*, Preparatory; *Prof.*, Professor; *Sh. E.*, Short Course in Engineering; *So.*, Sophomore; *Sp.*, Special; *Sr.*, Senior; *Un.*, Unclassified. For students by classes, see p. 205, *et seq.*; for officers, see p. 5, *et seq.*

Abbot, T. O., <i>Sr.</i>	Barton, H. W., <i>Sr.</i>	Blakeley, G. T., <i>Jr.</i>
Achenbach, C. H., <i>So.</i>	Barton, W. H., <i>So.</i>	Blakemore, W. A., <i>Sr.</i>
Acree, W. F., <i>Fr.</i>	Barton, M. Garland, <i>Fr.</i>	Bland, Rose, <i>Instr.</i>
Adams, C. F., <i>Exp. Sta. Dir.</i>	Bateman, Mary C., <i>Instr.</i>	Bledsoe, Alva L., <i>So.</i>
Adams, Helen C.,	<i>Music.</i>	Blewster, R. L., <i>Fr.</i>
Akin, C. H., <i>Prep.</i>	Bateman, J. T., <i>Sr.</i>	Boner, R. P., <i>Fr.</i>
Alberson, Lydia C.	Bauerlein, Beatrix C., <i>C.</i>	Booth, F. E., <i>Fr.</i>
Alberson, E. C., <i>Fr.</i>	Baxendale, John, <i>Sr.</i>	Borders, J. M., <i>Adj. Prof.</i>
Alcorn, M. O., <i>Sp.</i>	Beal, R. K., <i>So.</i>	Bowen, Edward, <i>Prep.</i>
Alewine, O. M., <i>So.</i>	Beane, Ada L., <i>Sr.</i>	Bowen, H. R., <i>Sh. E.</i>
Alphine, J. H., <i>Sr.</i>	Beane, Eunice, <i>Fr.</i>	Bowers, M. D., <i>Fr.</i>
Allen, B. F., <i>Sr.</i>	Beck, R. W., <i>Fr.</i>	Boyd, Frances L., <i>Fr.</i>
Ambrose, R., <i>Fr.</i>	Becker, Geo. G., <i>Adj. Prof.</i>	Bradford, C. G., <i>Sr.</i>
Ambrose, W. H., <i>Jr.</i>	Bell, J. E., <i>Prep.</i>	Bradford, W. E., <i>Sp.</i>
Anderson, J. R., <i>Prep.</i>	Bell, Mable C., <i>C.</i>	Bradley, H. H., <i>Fr.</i>
Anderson, E. J., <i>Fr.</i>	Belts, Florence W., <i>So.</i>	Bragg, P. N., <i>Jr.</i>
Anderson, L. I., <i>So.</i>	Benham, J. D., <i>Fr.</i>	Bransford, W. H., <i>So.</i>
Armitage, J. G., <i>Jr.</i>	Bennett, Fred, <i>Sr.</i>	Bray, E. R., <i>Prep.</i>
Ashley, J. C., <i>Sr.</i>	Benson, Lawrence, <i>Prep.</i>	Brennan, Mildred F., <i>C.</i>
Atkinson, G. S., <i>Prep.</i>	Benton, Sidney, <i>Sh. E.</i>	Brannan, Dorothy K., <i>Prep.</i>
Atkinson, Elza R., <i>So.</i>	Berry, J. N., <i>Sh. E.</i>	Brereton, Blanche, <i>So.</i>
Atkinson, Ned. <i>Fr.</i>	Bezdek, Hugo, <i>Ath. Dir.</i>	Brewer, O. C., <i>Sr.</i>
Austin, J. W., <i>Sp.</i>	Black, Lanie G., <i>Sr.</i>	Brewer, M. H., <i>Jr.</i>
Austin, Roy M., <i>Jr.</i>	Black, E. H., <i>Fr.</i>	Bridges, G. R., <i>Prep.</i>
Austin, Mary L., <i>Prep.</i>	Black, Jewell H., <i>Fr.</i>	Bridges, P. M., <i>Prep.</i>
Austin, Mrs. Mary L., <i>Libr.</i>	Blackford, Mary, <i>Sr.</i>	Briscoe, Vesta E., <i>Fr.</i>
Badinelli, E. B., <i>Jr.</i>	Blacklock, C. E., <i>So.</i>	Brodie, P. H., <i>Jr.</i>
Baggett, W. H., <i>Sh. E.</i>	Blackmun, Ora., <i>Fr.</i>	Brown, J. R., <i>Fr.</i>
Bagley, H. S., <i>Sr.</i>	Blackshare, Lochie D., <i>So.</i>	Brown, Esther F., <i>C.</i>
Baker, L. S., <i>Sh. E.</i>	Blackshare, Lena E., <i>Jr.</i>	Brown, Epps, Jr., <i>Fr.</i>
Baker, R. S., <i>Fr.</i>	Blackshare, Jennie L., <i>Jr.</i>	Browne, L. W., <i>Prep.</i>
Baker, R. K., <i>Jr.</i>	Blackshire, Deane, <i>C.</i>	Bruce, W. M., <i>Prof.</i>
Baker, A. S., <i>Prep.</i>	Blackshire, J. O., <i>Prep.</i>	Browning, J. M., <i>Fr.</i>
Ball, S. M., <i>Sp.</i>	Blain, Roy, <i>Fr.</i>	Bryan, Frank, <i>Sr.</i>
Banks, G. H., <i>So.</i>	Blain, Bart, <i>Fr.</i>	Bryant, Anna C., <i>Prep.</i>
Banta, Katherine, <i>Fr.</i>	Blake, Estelle M., <i>Instr.</i>	Buckley, Sam S., <i>So.</i>
Barnes, R. G., <i>Fr.</i>	Blake, Theodore, <i>Instr.</i>	Buckley, V. B., <i>Sr.</i>
Barr, Frank, <i>Band Instr.</i>	Blakeley, J. T., <i>Fr.</i>	Buerkle, J. G. A., <i>Fr.</i>
Barry, Edna, <i>Prep.</i>	Blakeley, L. R., <i>So.</i>	Bullock, T. J., <i>Fr.</i>



- Bunch, W. L., *Prep.*  
 Bunn, C. F., *Fr.*  
 Burke, J. G., *Prep.*  
 Burkhalter, L. R., *Fr.*  
 Burns, Eunice, *Matron.*  
 Burnside, Aurelle, *Sr.*  
 Burrow, Emma Gene, *So.*  
 Burrow, D. H., *Fr.*  
 Butler, Vohl., *Jr.*  
 Campbell, Joe., *Un.*  
 Campbell, G. M., *Fr.*  
 Cantrell, W. T., *So.*  
 Carden, W. M., *Sr.*  
 Carl, C. F., *So.*  
 Carley, F. E., *Prep.*  
 Carnes, Guyon, *Instr.*  
 Carothers, S. W., *Fr.*  
 Carothers, Neil, *Assoc. Prof.*  
 Carroll, C. G., *Prof.*  
 Carroll, J. C., *Prep.*  
 Carroll, H. D., *Fr.*  
 Carruth, R. H., *Sr.*  
 Carter, R. D., *Prof.*  
 Carter, Bess, *Sr.*  
 Carter, G. B., *So.*  
 Carter, Ollie, *Jr.*  
 Case, Georgia I., *C.*  
 Casey, W. B., *So.*  
 Casey, J. E., *Fr.*  
 Castleberry, E. E., *Prep.*  
 Castleberry, Annice, *C.*  
 Catts, Mary E., *So.*  
 Caudle, R. D., *Jr.*  
 Chandler, P. E., *Sr.*  
 Cherry, J. L., *So.*  
 Christopher, Carl, *Instr.*  
 Chryst, Mary, *Prep.*  
 Clark, M. D., *Fr.*  
 Clark, Lenora D., *Prep.*  
 Clark, R. T., *Fr.*  
 Cobb, Vivien, *C.*  
 Cochran, J. H., *So.*  
 Coffey, Jewell, *Prep.*  
 Cole, G. A., *Prot.*  
 Collins, J. H., *Un.*  
 Collins, F. Nell, *C.*  
 Collins, A. J., *Sh. E.*  
 Collins, Alice G., *Jr.*  
 Conatser, R. C., *So.*  
 Cook, J. C., *Fr.*  
 Cook, B. S., *Jr.*  
 Cook, E. T., *Fr.*  
 Cooper, R. R., *Prep.*  
 Corbell, O. M., *Jr.*  
 Cory, Lucy F., *So.*  
 Cotman, Tarelton, *So.*  
 Cotton, E. W., *Fr.*  
 Couch, Nell S., *Sr.*  
 Coventon, J. W., *Fr.*  
 Coward, Lillie Belle, *Jr.*  
 Creekmore, S. W., *Sr.*  
 Crippin, W. T., *Engr.*  
 Crockett, Fred, *Fr.*  
 Croom, S. G., *Fr.*  
 Croxdale, Ressie W., *Jr.*  
 Croxdale, E. W., *Fr.*  
 Croxdale, E. T., *Prep.*  
 Curl, J. L., *So.*  
 Cypert, A. B., *Sr.*  
 Daniel, Lucy M., *Sr.*  
 Daniel, Fannie, *Fr.*  
 Dargan, Maugerite, *C.*  
 Darough, W. T., *Sr.*  
 Daugherty, L. D., *Fr.*  
 Davenport, B. G., *Fr.*  
 Davis, R. H., *Prep.*  
 Davis, Rachel, *So.*  
 Davis, Lucile, *Prep.*  
 Davis, Brickell, *C.*  
 Davis, Mabel, *C.*  
 Davis, C. M., *So.*  
 Davis, W. C., *Jr.*  
 Davis, John, *Sh. E.*  
 Davis, V. E., *So.*  
 Davis, R. L., *Fr.*  
 Davis, R. L., *Grad.*  
 Davis, Mary Anne, *Instr.*  
 Davis, H. C., *Sp.*  
 Dean, W. H., *Instr.*  
 Deane, Geo. F., *Sh. E.*  
 DeBerry, Henry, *Sr.*  
 Decker, Klerchia L., *Prep.*  
 Decker, Kivia L., *Fr.*  
 Depue, DeWitt, *Instr.*  
 Dennis, E. E., *Fr.*  
 Derden, J. H., *So.*  
 DeRouhlac, G. T., *Prep.*  
 Devaney, Hallie, *C.*  
 Dickinson, B. F., *Grad.*  
 Dickinson, R. V., *Sh. E.*  
 Dickinson, J. A., *Jr.*  
 Dickson, B. W., *Y. M. C.*  
 Dickson, D. R., *Fr.*  
 Dillard, Minnie A., *So.*  
 Dinwiddie, R. R., *Prof.*  
 Dinwiddie, J. A., *So.*  
 Dodge, Alice M., *C.*  
 Dolby, J. O., *Prep.*  
 Donaldson, H. P., *Un.*  
 Dortch, G. L., *Jr.*  
 Douglas, W. E., *So.*  
 Douglas, C. H., *Sr.*  
 Douglas, A. M., *Sr.*  
 Dowdle, R. G., *Fr.*  
 Dowell, A. S., *Sp.*  
 Dowell, H. E. Jr., *Fr.*  
 Downs, R. R., *Fr.*  
 Driver, M. W., *Prep.*  
 Droke, G. W., *Prof.*  
 Droke, M. Josephine, *Instr.*  
 Droke, A. H., *Sr.*  
 Drover, W. H., *So.*  
 Duckworth, W. E., *Instr.*  
 Duncan, W. W., *So.*  
 Dunlap, R. D., *Fr.*  
 Dunn, B. J., *Assoc. Prof.*  
 Dunn, J. C., *Prep.*  
 Dunn, H. W., *Fr.*  
 Dyer, Reba, *Sr.*  
 Earl, R. D., *Fr.*  
 Eidson, Sally M., *Prep.*  
 Ellington, O., *So.*  
 Ellis, R. A., *Prep.*  
 Ellis, G. H., *Sh. E.*  
 Ellis, O. F., *Jr.*  
 Ellis, Earl, *Fr.*  
 Ellis, Elizabeth, *Fr.*  
 Ellis, R. S., *Sr.*  
 Emerson, H. A., *Prep.*  
 English, E. H., *Fr.*  
 Eoff, Dennie J., *Sr.*  
 Estes, R. C., *Sh. E.*  
 Estes, G. D., *So.*  
 Etheridge, Pearle H., *Instr.*  
 Etheridge, Y. W., *Sr.*  
 Evans, W. V., *So.*  
 Faulkner, T. H., *So.*  
 Feldt, Louise F., *Sr.*  
 Felton, R. D., *So.*  
 Ferguson, J. A., *Un.*  
 Flies, F. W., *So.*  
 Fliinn, H. H., *Jr.*  
 Flint, P. N., *Prof.*  
 Filnt, Norene, *C.*  
 A. Sec'y.

- Fogg, J. P., *Jr.*  
 Forbes, N. M., *Prep.*  
 Frazier, E. H., *Fr.*  
 Funk, Irma F., *Fr.*  
 Funkhouser, Virginia E., *Prep.*  
 Futrall, J. C., *Prof.*  
 Galbraith, Elizabeth, *Instr.*  
 Gammill, Emmett, *Prep.*  
 Gannaway, C. C., *Fr.*  
 Gardner, W. B., *Fr.*  
 Garrett, C. W., *Prep.*  
 Garvin, Cathleen M., *Fr.*  
 Gates, D. A., *Jr.*  
 Gates, Margaret B., *Fr.*  
 Gaughan, J. E., *Sr.*  
 Gean, B., *Prep.*  
 Gerig, F. A., *So.*  
 Gerard, A. S., *Fr.*  
 Gibson, J. M., *Prep.*  
 Gibson, R. C., *Fr.*  
 Gillespie, Virgie, *C.*  
 Gillim, E. B., *Fr.*  
 Gist, J. E., *So.*  
 Gladson, W. N., *Prof.*  
 Gladson, Hazel W., *So.*  
 Gladson, Marion S., *Fr.*  
 Golden, J. W., *Prep.*  
 Goodson, H. W., *Prep.*  
 Goodwin, W. L., *Sr.*  
 Goss, A. L., *So.*  
 Gough, Ivor, *Sr.*  
 Gow, F. M., *Instr.*  
 Grady, R. W., *Fr.*  
 Graham, J. J., *Sh. E.*  
 Gravette, Ollie, *Prep.*  
 Green, T. A., *Jr.*  
 Green, W. E., *So.*  
 Green, W. B., *Prep.*  
 Green, E. G., *So.*  
 Greenfield, Walter, *Fr.*  
 Greever, G. G., *Assoc. Prof.*  
 Greever, Mrs. G. G., *C.*  
 Gregg, Pansy, *Fr.*  
 Gregg, Mildred, *L. So.*  
 Gregory, W. R., *Fr.*  
 Greig, Star, *So.*  
 Gresham, G. G., *Prep.*  
 Grimes, O. E., *Prep.*  
 Guynes, W. M., *Sr.*  
 Hackleman, G. L., *So.*  
 Hackleman, E. L., *Fr.*  
 Hackworth, P. D., *Prep.*  
 Hagler, A. E., *Un.*  
 Halbrook, C. B., *Un.*  
 Hall, M. G., *Sr.*  
 Hall, M. Z., *Sr.*  
 Hall, Virginia, *C.*  
 Hall, Mrs. E. F., *C.*  
 Hall, Julien, *C.*  
 Hamburg, E. S., *Un.*  
 Hamilton, A. C., *So.*  
 Hamilton, Etta L., *So.*  
 Hamilton, A. B., *Un.*  
 Hamilton, Frances, *Prep.*  
 Harding, E. W., *Prep.*  
 Harding, A. M., *Assoc. Prof.*  
 Harding, Chester, *Prep.*  
 Hargis, Mary G., *Instr.*  
 Harkness, Jessie, *So.*  
 Harlan, E. T., *Jr.*  
 Harrington, Marie B., *Jr.*  
 Harris, Fannie M., *So.*  
 Harris, Martha, *So.*  
 Harris, Ruth E., *Sp.*  
 Harris, Eutha, *Jr.*  
 Harrison, Jere F., *Jr.*  
 Harrod, Lem B., *Jr.*  
 Hatchett, E. E., *Fr.*  
 Hatchett, M. P., *Sr.*  
 Hayhurst, Paul, *Assoc. Prof.*  
 Hays, E. T., *Jr.*  
 Hays, Elizabeth L., *So.*  
 Hays, C. W., *So.*  
 Hazlewood, W. G., *Un.*  
 Hemphill, K. A., *Un.*  
 Henry, E. A., *Fr.*  
 Henry, LeRoy, *Prep.*  
 Herndon, Johnnie, *Prep.*  
 Herring, W. C., *So.*  
 Hewett, J. L., *Prof.*  
 Higgs, J. H., *Un.*  
 Highfill, L. R., *So.*  
 Highfill, H. H., *Jr.*  
 Highfill, R. D., *Sr.*  
 Hight, Alice, *C.*  
 Hilt, Emma F., *Jr.*  
 Hilton, L., *L. So.*  
 Hilton, E. C., *Prep.*  
 Hinton, L. E., *Sp.*  
 Hirst, C. M., *Jr.*  
 Hobbs, Alice, *C.*  
 Hodges, R. T., *Prep.*  
 Hogan, D. L., *So.*  
 Hogue, Effa L., *Sr.*  
 Hogue, A. A., *Prep.*  
 Holcomb, Lillian, *Fr.*  
 Holcombe, Mrs. J. R., *So.*  
 Holcombe, Jobelle, *Instr.*  
 Hollabaugh, Essie, *Fr.*  
 Holloway, C. V., *Jr.*  
 Holmes, Geo., *Prep.*  
 Holt, J. B., *So.*  
 Holt, M. L., *Fr.*  
 Holtzclaw, Henry, *So.*  
 Hon, Lucy E., *Sr.*  
 Horton, Ralph, *So.*  
 House, A. F., *So.*  
 Hoyt, Blanche, *C.*  
 Howell, Rachel C., *C.*  
 Huber, C. A., *Prep.*  
 Hudson, Inez, *So.*  
 Huggins, Frank, *Sp.*  
 Hughes, Verda, *C.*  
 Hughes, Martha L., *Prep.*  
 Hughes, J. L., *Sr.*  
 Hughes, J. L., *Sr.*  
 Hulse, Maud, *C.*  
 Hulse, L. R., *Jr.*  
 Humphries, F. A., *Prep.*  
 Humphries, H. H., *Sr.*  
 Hunter, L. W., *Jr.*  
 Huntley, P. C., *Adj. Prof.*  
 Huntley, B. W., *Fr.*  
 Hurst, J. D., *So.*  
 Hutchins, R. M., *Sr.*  
 Hutchinson, Aileen, *So.*  
 Hutchinson, Rosemai, *So.*  
 Huxtable, F. B., *Prep.*  
 Hyatt, C. L., *Sr.*  
 Irby, N. M., *Prep.*  
 Isom, Mather, *Sp.*  
 Izzard, Letha C., *Fr.*  
 Jacks, T. H., *Prep.*  
 Jacks, R. D., *So.*  
 Jackson, A. R., *Sp.*  
 Jackson, T. A., *So.*  
 Jackson, Pearle E., *Fr.*  
 James, John J., *Adj. Prof.*  
 Jamison, Claudine E., *Prep.*  
 Jeffery, Neill D., *Prep.*  
 Johnson, Nelle D., *Prep.*  
 Johnson, W. S., *Prof.*  
 Johnson, Floyd, *So.*  
 Johnson, J. V., *Prep.*  
 Joiner, J. W., *Jr.*

- Joiner, Carrie, *Fr.*  
 Jones, Curtis, *So.*  
 Jones, Leah T., *Jr.*  
 Jordan, Flossa T., *Sr.*  
 Jordan, Ettalena, *Prep.*  
 Jordan, Mary E., *Fr.*  
 Kalb, Allie C., *Fr.*  
 Keith, A. A., *Sp.*  
 Keith, Marvin, *Prep.*  
 Kelley, C. Q., *Fr.*  
 Kelton, Fannie, *Jr.*  
 Kennard, R. P., *Prep.*  
 Kilgore, Vesta B., *Fr.*  
 Killough, W. N., *Fr.*  
 Kimbrough, Ethel, *Prep.*  
 King, Arthur, *Jr.*  
 King, Harry, *Sr.*  
 Kinsworthy, B. S., *So.*  
 Kirby, E. W., *Prep.*  
 Kirby, A. C., *So.*  
 Kitchens, H. M., *Fr.*  
 Knerr, Bertha, *I. Fr.*  
 Knoch, E. A., *Prep.*  
 Knoch, J. J., *Prof.*  
 Knox, Virginia D., *Sr.*  
 Knott, V. T., *Assoc. Prof.*  
 Lacy, Mabel L., *Prep.*  
 Lake, E. C., *Fr.*  
 Landrum, Eunice A., *C.*  
 Lange, H. A., *So.*  
 Langston, Zora L., *So.*  
 Laser, Lucile, *So.*  
 Lasseter, W. C., *Adj. Prof.*  
 Laughinghouse, N. R., *Jr.*  
 Lawson, Lillian, *Soph.*  
 Lawson, H. M., *Prep.*  
 Lea, R. A., *Sr.*  
 Lee, Roland B., *Sr.*  
 Lee, S. H., *Jr.*  
 Leibolt, Lucile, *Prep.*  
 Leinen, E. L., *Un.*  
 Leming, Lyda, *Fr.*  
 Lenker, Leslie, *E. Jr.*  
 Lentz, Max C. G., *Prof.*  
 Lester, E. F., *Prep.*  
 Lester, M. O., *Prep.*  
 Leverett, Madge, *C.*  
 Leverett, Percy, *Fr.*  
 Lewis, Ida B., *C.*  
 Lewis, Jennie D., *C.*  
 Lighton, Dorothy R., *Fr.*  
 Ligon, Leora G., *Fr.*  
 Likins, R. D., *Prep.*  
 Lilly, C. P., *Un.*  
 Lincoln, S. E., *Jr.*  
 Lindsey, V. T., *Fr.*  
 Loomis, Lelia, *So.*  
 Loomis, Vena, *So.*  
 Lossow, Maugerite R., *C.*  
 Loving, R. O., *Fr.*  
 Lowe, J. M., *Prep.*  
 Lucas, Julia M., *C.*  
 Lucas, Camille K., *C.*  
 Magness, E. B., *Fr.*  
 Magness, P. G., *Fr.*  
 Malone, A. H., *Un.*  
 Maloney, Orlean, *C.*  
 Manning, Gladys, *Sr.*  
 Mardis, Paul, *Grad.*  
 Marinoni, Antonio, *Prof.*  
 Marks, J. A., *Sr.*  
 Marsh, J. E., *So.*  
 Martin, H. B., *Sr.*  
 Martin, Aubert, *Jr.*  
 Massey, J. W., *Fr.*  
 Matthews, Jim P., *Fr.*  
 May, R. V., *Fr.*  
 Mayes, Ruth, *C.*  
 McAdams, L. Alberta, *Prep.*  
 McCartney, Ruth, *Jr.*  
 McCatney, M. Isabelle, *Sr.*  
 McCarty, R. L., *Sr.*  
 McCarty, R. O., *Fr.*  
 McClain, Arthur, *Sr.*  
 McClanahan, George M., *Fr.*  
 McClanahan, Dell H., *Fr.*  
 McCluer, R. D., *So.*  
 McCoy, Bess C., *Jr.*  
 McCoy, Jessie M., *Jr.*  
 McCulloch, Richard, *Prep.*  
 McDearmon, Nora, *So.*  
 McDearmon, G. W., *Fr.*  
 McDowell, J. T., *So.*  
 McFarlane, Maugerite, *C.*  
 McFarlane, R. H., *Fr.*  
 McFarlane, W. D., *Prep.*  
 McGehee, W. A., *Fr.*  
 McGill, S. D., *Jr.*  
 McGill, Minto, *Fr.*  
 McGill, W. G., *Prep.*  
 McGill, L. H., *Fr.*  
 McGill, S. S., *Fr.*  
 McHenry, H. W., *So.*  
 Mellroy, W. H., *So.*  
 Mellroy, Cornelia, *Prep.*  
 McLelland, C. J., *So.*  
 McLeod, L. S., *Jr.*  
 McMurtrey, Olive H., *Fr.*  
 McPherson, R. R., *Sp.*  
 McRae, Evelyn, *C.*  
 McRoy, R. P., *Prep.*  
 Medley, W. C., *So.*  
 Meriwether, L. H., *So.*  
 Merrill, Mabel I., *Prep.*  
 Metcalf, R. J., *Fr.*  
 Metcalf, C. H., *Sr.*  
 Metzger, Evelyn, *Instr.*  
 Metzger, Jule, *C.*  
 Meyer, N. S., *Sp.*  
 Milburn, Mabelle E., *Prep.*  
 Miles, W. C., *Jr.*  
 Milligan, Hazel M., *Fr.*  
 Milligan, J. J., *Fr.*  
 Millwee, F. B., *Prep.*  
 Millwee, R. M., *So.*  
 Mitchell, Brainard, *Adj. Prof.*  
 Mitchell, G. W., *Sr.*  
 Mitchell, Fred, *Fr.*  
 Mixon, Harvey, *Fr.*  
 Mobley, H. S., *Prof.*  
 Mock, Genevieve, *E. C.*  
 Montague, C. W., *Sp.*  
 Moody, W. F., *Jr.*  
 Moore, S. W., *So.*  
 Moore, Jaunita, *Sp.*  
 Moore, Lyla, *G. Un.*  
 Moore, J. C., *Prep.*  
 Moore, C. J., *Fr.*  
 Moore, C. M., *Fr.*  
 Moore, Katisue, *Prep.*  
 Moore, N. P., *Prep.*  
 Morgan, C. S., *Prep.*  
 Morgan, J. H., *Prep.*  
 Morris, B. B., *Sr.*  
 Morrison, A. B., *Jr.*  
 Morrow, H. E., *Adj. Prof.*  
 Moss, L. B., *So.*  
 Morton, Jennie, *Jr.*  
 Morton, Winifred, *Prep.*  
 Murphy, W. H., *Fr.*  
 Murphy, Jeffie R., *Sp.*  
 Nall, T. N., *Fr.*  
 Nall, Hazel T., *Fr.*



- Neely, Hallie T., *Un.*  
 Nelson, Martin, *Prof.*  
 Newman, A. L., *Prep.*  
 Nickell, H. A., *Un.*  
 Nixon, C. M., *Sp.*  
 Norberry, Victoria, *Sp.*  
 Norris, Claire, *Jr.*  
 Norris, C. B., *Fr.*  
 Northum, T. N., *So.*  
 Norwood, Gladys M., *C.*  
 Norwood, R. A., *Sh. E.*  
 Oates, Eunice, *C.*  
 Oliver, J. W., *Prep.*  
 Olney, L. S., *Asso. Prof.*  
 Oneal, F. L., *So.*  
 Oneal, E. H., *So.*  
 Orton, Myrtle, *Jr.*  
 Orton, Wilbur, *Fr.*  
 Oswald, Fred, *So.*  
 Overholt, Mary E., *Fr.*  
 Overholt, R. D., *Prep.*  
 Overholt, J. E., *Jr.*  
 Overton, W. R., *So.*  
 Oxford, Lela M., *C.*  
 Page, Elizabeth, *Fr.*  
 Parcell, E. W., *So.*  
 Parke, Mrs. F. S., *Matron.*  
 Parks, Julia M., *Prep.*  
 Parsons, L. C., *Fr.*  
 Patrick, Katie C., *Fr.*  
 Paul, C. W., *Jr.*  
 Payne, E. E., *Fr.*  
 Payne, R. H., *So.*  
 Payne, Harold, *Un.*  
 Peachey, J. F., *Fr.*  
 Pearson, Stella R., *So.*  
 Pemberton, H. J., *Sh. E.*  
 Pemberton, R. L., *So.*  
 Pendleton, C. M., *Sh. E.*  
 Penix, W. R., *Jr.*  
 Pennington, Cornelius, *Prep.*  
 Pennington, Ward, *Prep.*  
 Pennington, Bess, *Fr.*  
 Peter, Oma C., *Prep.*  
 Pettigrew, Lucile A., *Jr.*  
 Pettigrew, Ruth, *Jr.*  
 Petit, H. C., *So.*  
 Phillips, H. E., *Prep.*  
 Philpot, E. M., *Sr.*  
 Phipps, Vida, *C.*  
 Pickell, F. W., *Prof.*  
 Pitman, May, *Jr.*  
 Plemmons, L. R., *Sr.*  
 Plunkett, C. E., *Prep.*  
 Poff, A., *Prep.*  
 Pope, A. A., *Prep.*  
 Porter, Frances, *Fr.*  
 Potter, Rissie L., *Fr.*  
 Potter, G. C., *Fr.*  
 Potter, Mabel M., *Fr.*  
 Potter, H. N., *Fr.*  
 Potter, Winnie K., *Fr.*  
 Prall, Beatrice, *Sr.*  
 Price, Evadna M., *Prep.*  
 Price, J. D., *Fr.*  
 Price, O. G., *Prep.*  
 Pugh, J. D., *So.*  
 Pulley, E. C., *Fr.*  
 Pulliam, Lucy, *Jr.*  
 Pulliam, H. N., *Jr.*  
 Purcell, W. R., *Jr.*  
 Purdue, A. H., *Prof.*  
 Puterbaugh, G. L., *Fr.*  
 Pye, I. A., *Sh. E.*  
 Pye, Ruth E., *Jr.*  
 Pyeatt, Wallace, *So.*  
 Quertermous, H. W., *Prep.*  
 Rabon, E. R., *Prep.*  
 Raleigh, J. A., *Fr.*  
 Ramsey, Eugene, *C.*  
 Ramsey, M. Adele, *C.*  
 Ramsey, W. A., *Prof.*  
 Rankin, Lois, *Un.*  
 Ratliff, E. M., *Fr.*  
 Ray, C. H., *Fr.*  
 Reed, N. B., *Jr.*  
 Reed, Kate, *Fr.*  
 Rees, Lillian, *C.*  
 Reinsch, O. R., *Fr.*  
 Renick, Ethel L., *Jr.*  
 Reynolds, J. H., *Prof.*  
 Revel, Duke, *Fr.*  
 Rhea, W. H., *Jr.*  
 Rhea, P. M., *Jr.*  
 Rhyne, J. O., *So.*  
 Richmond, H., *So.*  
 Riggs, T. W., *Sp.*  
 Ripley, R. E., *Prof.*  
 Roark, G. W., *So.*  
 Robbins, Edwin, *Fr.*  
 Roberts, Katherine, *Prep.*  
 Robertson, James, *Jr.*  
 Robinson, Agnes, *Jr.*  
 Robinson, Lillian A., *Fr.*  
 Robinson, John Paul, *Fr.*  
 Rogers, L. H., *Jr.*  
 Rogers, J. A. D., *C.*  
 Rogers, Vivian, *Fr.*  
 Rogers, G. K., *Fr.*  
 Rogers, L. Clementine, *Prep.*  
 Roper, Cornelia, *So.*  
 Rorie, G. C., *Sr.*  
 Rossner, Earl, *Fr.*  
 Roys, M. B., *Fr.*  
 Rudell, J. E., *Fr.*  
 Rudolph, Freda F., *Fr.*  
 Russell, Fannie G., *Prep.*  
 Ruzek, C. V., *Adj. Prof.*  
 Rye, Vim X., *So.*  
 Rye, W. G., *Sr.*  
 Sample, L. A., *Prep.*  
 Sanderlin, D. B., *Jr.*  
 Sanders, D. T., *So.*  
 Savage, D. I., *Sr.*  
 Schalehlin, G. W., *Fr.*  
 Schoolfield, J. L., *Prep.*  
 Schoolfield, Eunice, *Jr.*  
 Schuh, R. V., *Fr.*  
 Scott, Maggie M., *So.*  
 Scroggin, Ben, *Prep.*  
 Scurlock, E. H., *Un.*  
 Sedwick, B. F., *Sr.*  
 Sedwick, H. P., *Prep.*  
 Seidel, E., *Prep.*  
 Sellers, Nina G., *So.*  
 Sellers, A. Y., *So.*  
 Schackleford, C. E., *So.*  
 Shane, J. C., *Sr.*  
 Shannon, E. F., *Prof.*  
 Sharp, J. E., *Fr.*  
 Shaver, Dorothy, *Fr.*  
 Shaw, G. J. S., *So.*  
 Sheffield, H. C., *Sr.*  
 Shelton, M. L., *Sh. E.*  
 Shipley, D. W., *Prep.*  
 Shipley, Nellie, *Prep.*  
 Shipley, R. E., *Sr.*  
 Short, G. Y., *Fr.*  
 Schulz, Louise V., *Prep.*  
 Sifford, Jack, *Sh. E.*  
 Sikes, Fred L., *Fr.*  
 Sibernagel, Louis L., *Sh. E.*  
 Silliman, W. E., *Prep.*  
 Simco, T. F., *Sp.*

- Simpson, Ruth, *Fr.*  
 Sinclair, C. B., *Fr.*  
 Skaggs, N., *C.*  
 Skaggs, Cuba M., *Prep.*  
 Skinner, B. J., *So.*  
 Sly, A. G., *Sr.*  
 Smith, H., *Fr.*  
 Smith, Lena, *Prep.*  
 Smith, Gladys, *C.*  
 Smith, Lucile I., *Jr.*  
 Smith, L. R., *Prep.*  
 Smith, R. D., *Sr.*  
 Smith, M. F., *Sr.*  
 Smith, C. S., *Prep.*  
 Smith, E. W., *Prep.*  
 Smith, Maud I., *So.*  
 Smith, Ruth C., *So.*  
 Snell, Edith, *So.*  
 Snell, F. G., *Fr.*  
 Snodgrass, G. M., *Fr.*  
 Southworth, G. Quinland, *Jr.*  
 Southworth, J. R., *Sr.*  
 Spangler, C. R., *Un.*  
 Sparks, C. L., *Prep.*  
 Sparks, C. B., *Prep.*  
 Spencer, Gertrude, *Prep.*  
 Spikes, Alma, *C.*  
 Spurlock, Gerald, *Fr.*  
 Stahl, J. L., *Adj. Prof.*  
 Stallings, D. G., *Fr.*  
 Stallings, J. R., *Jr.*  
 Stanford, J. F., *Adj. Prof.*  
 Stearns, H. L., *Prep.*  
 Steece, H. M., *So.*  
 Steel, A. A., *Assoc. Prof.*  
 Stelzner, W. B., *Adj. Prof.*  
 Stevenson, C. E., *Fr.*  
 Stevinson, E. U., *Prep.*  
 Stevens, H. E., *Adj. Prof.*  
 Stewart, Jessie, *Prep.*  
 Stewart, L. G., *So.*  
 Still, F. J., *So.*  
 Stockburger, R. R., *So.*  
 Stout, S. R., *Jr.*  
 Stone, Marion, *Prep.*  
 Stover, D. A., *So.*  
 Strickland, J. O., *Prep.*  
 Strickland, G. G., *So.*  
 Stuckey, Helen, *Prep.*  
 Stutes, J. B., *Un.*  
 Summers, Beatrice M., *Un.*  
 Sutton, G. H., *Sp.*  
 Swilley, G. W., *Fr.*  
 Taff, N. O., *Jr.*  
 Talley, L. S., *Fr.*  
 Takata, N. I., *Jr.*  
 Tatum, Stonewall, *Prep.*  
 Taylor, J. E., *Jr.*  
 Terry, Ruth, *So.*  
 Thomas, C. B., *Prep.*  
 Thomas, A. J., *Instr.*  
 Thomas, R. H., *So.*  
 Thomas, Maud, *Sr.*  
 Thomas, D. Y., *Assoc. Prof.*  
 Thomas, Fanny, *So.*  
 Thompson, R. C., *Instr.*  
 Thompson, M. G., *Prep.*  
 Thompson, Ethel M., *Sr.*  
 Thornton, R. E., *Fr.*  
 Tilley, R. F., *Sh. E.*  
 Tilley, Irene, *Jr.*  
 Tillman, J. N., *Pres.*  
 Titus, I. R., *Fr.*  
 Toler, Maud F., *C.*  
 Tompkins, C. H., *Sr.*  
 Tourgee, C. H., *Prof.*  
 Tovey, E. C., *Sr.*  
 Tovey, H. D., *Prof.*  
 Trent, Ruth, *C.*  
 Trickett, C. H., *So.*  
 Trickett, D. V., *Prep.*  
 Trigg, B. E., *Sp.*  
 Trimble, Susie, *C.*  
 Tucker, M. C., *Fr.*  
 Tunnah, Brunson, *Sp.*  
 Turner, A. S., *Fr.*  
 Tyson, H. Jewell, *Fr.*  
 Umholtz, A. J., *Sp.*  
 Vandeventer, Crockett, *Mrs., Instr.*  
 Vann, Frances M., *C.*  
 Vann, J. S., *Sp.*  
 Vanduyn, C. A., *Fr.*  
 Vaughan, Rosebud M., *Sr.*  
 Veazey, Mildred, *V. So.*  
 Veazey, Julia A., *Sr.*  
 Vestal, Edna V., *Prep.*  
 Vestal, Walter, *Sp.*  
 Vickers, H. A., *So.*  
 Vickers, R. H., *Jr.*  
 Vineyard, H. B., *So.*  
 Vinson, Claudia S., *So.*  
 Volentine, Paul, *Fr.*  
 Wade, Alice I., *Un.*  
 Wade, Jessie, *C.*  
 Waldron, R. C., *So.*  
 Walker, Ernest, *Prof.*  
 Walker, Ora F., *Un.*  
 Wallace, Amboline M., *C.*  
 Wallin, J. L., *Prep.*  
 Walls, S. R., *Sp.*  
 Wannamaker, O. D., *Prof.*  
 Ward, E. P., *Fr.*  
 Ward, Alice P., *Prep.*  
 Warner, C. R., *Sr.*  
 Warren, C. I., *Prep.*  
 Warrick, Florine, *R. So.*  
 Waskom, J. G., *So.*  
 Wasson, A., *Fr.*  
 Watt, Velma, *Fr.*  
 Watters, R. F., *Prep.*  
 Watts, T. S., *So.*  
 Watts, M. P., *Sh. E.*  
 Watkins, G. W., *So.*  
 Watson, Gussie D., *Fr.*  
 Watson, Sarah G., *C.*  
 Webb, C. A., *Jr.*  
 Webb, Ella L., *Sr.*  
 Webb, M., *Prep.*  
 Weidemeyer, H. A., *Fr.*  
 Weigart, G. T., *So.*  
 Wheeler, S. B., *Sr.*  
 Wheelis, R. B., *So.*  
 White, C. T., *Prep.*  
 White, Martha A., *Instr.*  
 White, F. S., *Grad.*  
 White, Louise, *C. C.*  
 Whitmore, W. H., *Fr.*  
 Wiggins, Sam, *Prep.*  
 Wilcoxon, A. A., *Sh. E.*  
 Wilder, S. F., *Sr.*  
 Wilkes, W. N., *Sr.*  
 Wilkerson, S. C., *Sr.*  
 Willard, Eva., *Prep.*  
 Willard, R. W., *Prep.*  
 Williams, D. C., *So.*  
 Williams, Naomi J., *Instr.*  
 Williams, W. Q., *Grad.*  
 Williams, W. R., *So.*  
 Williams, G. E., *So.*  
 Williams, Ruth, *Prep.*  
 Williams, Josephine A., *Prep.*  
 Williams, I. B., *Fr.*  
 Willson, J. F., *Prep.*

Willson, T. R., <i>Sr.</i>	Wofford, C. A., <i>So.</i>	Woods, B. D., <i>Fr.</i>
Wilson, B. N., <i>Prof.</i>	Wolf, Bess P., <i>Sr.</i>	Woolley, G. T., <i>Fr.</i>
Wilson, Walter, <i>Prep.</i>	Wolf, W. H., <i>Fr.</i>	Wootton, L. L., <i>Ex. Clerk.</i>
Wilson, Amy B., <i>Prep.</i>	Wolf, Guy W., <i>Jr.</i>	Wortz, C. H., <i>So.</i>
Wilson, R. M., <i>So.</i>	Wommock, Inez, <i>C.</i>	Wright, A. W., <i>Prep.</i>
Wilson, J. M., <i>Adj. Prof.</i>	Wood, J. H., <i>So.</i>	Wright, Katherine L., <i>So.</i>
Wilson, D. D., <i>Prep.</i>	Wood, Sue Belle, <i>Instr.</i>	Wright, Edna A., <i>Sr.</i>
Wilson, Ruth P., <i>Fr.</i>	Wood, R. G., <i>Jr.</i>	Wyche, Gladys, <i>C.</i>
Wilson, R. A., <i>Fr.</i>	Wood, J. S., <i>So.</i>	Wyllie, C. N., <i>So.</i>
Wilson, J., H. <i>Jr.</i>	Wood, Olive C., <i>Jr.</i>	Yates, Mary E., <i>C.</i>
Wilson, T. C., <i>Sr.</i>	Wood, R. E., <i>So.</i>	Yocum, H. S., <i>Sr.</i>
Wilson, Margaret, <i>C.</i>	Wood, R. W., <i>So.</i>	Young, W. T. C., <i>So.</i>
Winfree, O. M., <i>Prep.</i>	Woody, Sue, <i>Prep.</i>	Young, L. G., <i>Fr.</i>
Winfrey, H. L., <i>So.</i>	Woody, L. D., <i>Fr.</i>	Young, P. H., <i>Fr.</i>
Winfrey, J. S., <i>Prep.</i>	Woody, W. W., <i>So.</i>	Young, J. H., <i>Fr.</i>
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Maple Street

Arkansas Avenue

Campus of the University  
of Arkansas.

Dickson Street

ATHLETIC FIELD.

1. Ella Cornell Hall.
2. Chemistry Building.
3. Green House.
4. Agricultural Building.
5. Experiment Station.
6. Office of Director of Experiment Station.
7. Hospital.
8. Dairy Building.
9. Residence of Foreman of Farm.
10. Hill Hall.
11. Gray Hall.
12. Buchanan Hall.
13. Bath House.
14. Shops.
15. Engineering Hall.
16. Barn.
17. Tool House.
18. Grand Stand.
- A, B, C, Tennis Courts.

University Hall

